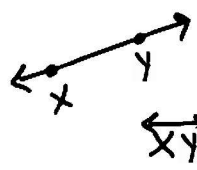
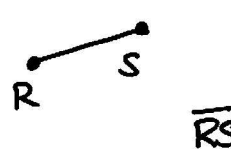
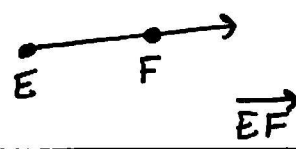
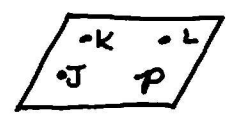
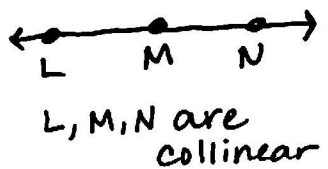
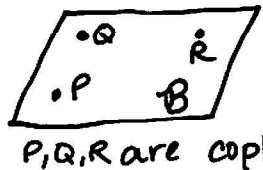
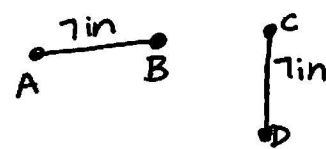
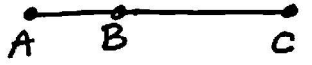
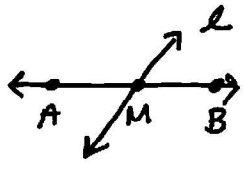
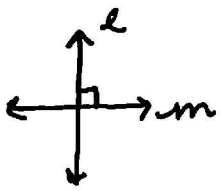
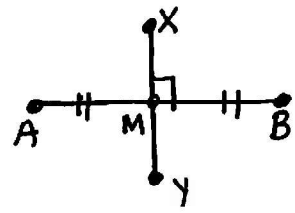
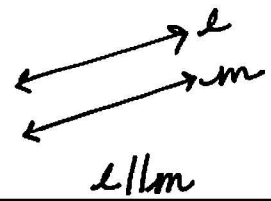
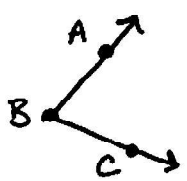


UNIT I DICTIONARY: GEOMETRY BASICS

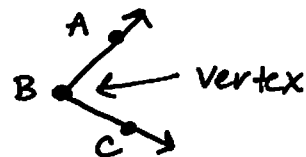
Points, Lines, & Planes	Definition	Example or Visual
POINT	A point is a location with no size or shape.	$\cdot A$ $\cdot B$ $\cdot C$
LINE	A line is made up of points with no thickness or width.	
LINE SEGMENT	A measurable part of a line consisting of two endpoints.	
RAY	A line that extends indefinitely in one direction.	
PLANE	A plane is a flat surface made up of points and extends indefinitely in all directions.	
COLLINEAR	Points that lie on the same line. * Non-collinear: points that do not lie on the same line.	
COPLANAR	Points that lie on the same plane. * Non-coplanar: points that do not lie on the same plane.	
CONGRUENT SEGMENTS	If two segments have the same length, then they are congruent.	 $AB = CD; \overline{AB} \cong \overline{CD}$

SEGMENT ADDITION POSTULATE	If A, B, and C are collinear points and B is between A and C, then $\overline{AB} + \overline{BC} = \overline{AC}$.	 $\overline{AB} + \overline{BC} = \overline{AC}$
DISTANCE FORMULA	The formula used to find the distance between two points on a coordinate plane.	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
MIDPOINT FORMULA	The formula used to find the midpoint between two endpoints.	$M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
SEGMENT BISECTOR	A segment, line, or plane that intersects a segment at its midpoint.	
PERPENDICULAR	Two lines that intersect at a 90° angle (right angle). Symbol: $\perp$	
PERPENDICULAR BISECTOR	A line, segment, or ray perpendicular to a segment at its midpoint.	
PARALLEL LINES	Two lines that never intersect. Symbol: $\parallel$	

Angles	Definition	Example or Visual
ANGLE	The intersection of two rays at an endpoint.	 $\angle ABC$

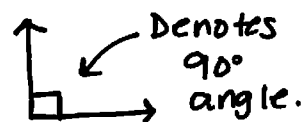
VERTEX

The common endpoint of an angle. (where the sides intersect)



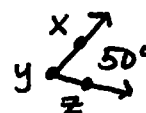
RIGHT ANGLE

An angle with a degree measure of 90° .



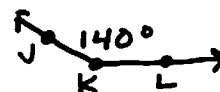
ACUTE ANGLE

An angle with a degree measure less than 90° .



OBTUSE ANGLE

An angle with a degree measure greater than 90° .



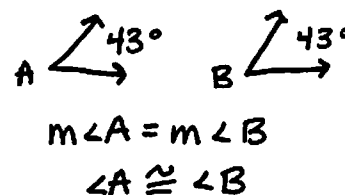
STRAIGHT ANGLE

An angle with a degree measure of 180° .



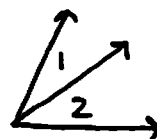
CONGRUENT ANGLES

Two angles that have the same measure are congruent



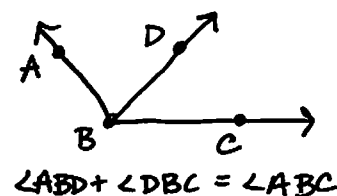
ADJACENT ANGLES

Two angles that share a common side and vertex.
"Next to" each other.



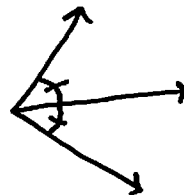
ANGLE ADDITION POSTULATE

If $\angle ABD$ and $\angle DBC$ are adjacent, then $\angle ABD + \angle DBC = \angle ABC$.



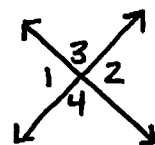
ANGLE BISECTOR

A line or ray that divides an angle into two equal parts.



VERTICAL ANGLES

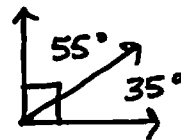
Two angles directly across from each other on intersecting lines.
Always congruent.



$$\begin{aligned} m\angle 1 &= m\angle 2 \\ m\angle 3 &= m\angle 4 \end{aligned}$$

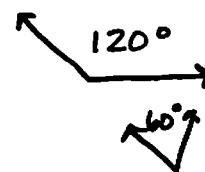
**COMPLEMENTARY
ANGLES**

Two angles with measures that
sum to 90°
* Do not have to be adjacent.*



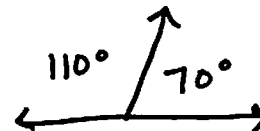
**SUPPLEMENTARY
ANGLES**

Two angles with measures that
sum to 180° .
* Do not have to be adjacent.*

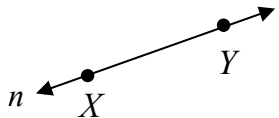
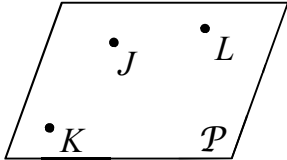
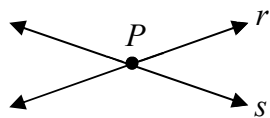
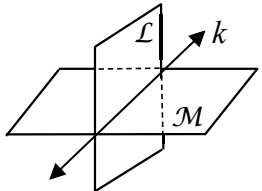


**LINEAR
PAIR**

Adjacent angles that are
supplementary. Combined, they
form a straight line.



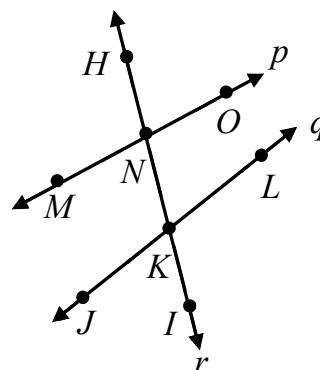
Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes
POINT 	- A point is a _____. - It has no _____ or _____. - Always use a <u>CAPITAL LETTER</u> to name a point. Example: _____
LINE 	- A line is made up of _____. - Any _____ points form a line. - A line has no _____ or _____. - Name a line by any <u>two</u> points on the line, or a lowercase script letter. Example: _____ COLLINEAR POINTS: Points that lie on the same line. NON-COLLINEAR POINTS: Points that do NOT lie on the same line. (Must be at least three points!)
PLANE 	- A plane is a _____ made up of points. - Any _____ points make up a plane. - A plane extends indefinitely in all directions. - Name a plane by any <u>three</u> non-collinear points on the plane, or an uppercase script letter. Example: _____ COPLANAR POINTS: Points that line on the same plane. NON-COPLANAR POINTS: Points that do NOT lie on the same plane. (Must be at least four points!)
Intersecting LINES & PLANES	 Two lines intersect at a _____!  Two planes intersect at a _____!

Naming Points, Lines, and Planes: Practice!

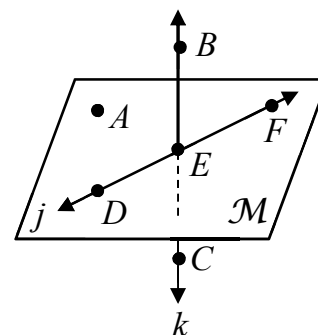
1. Use the diagram to the right to name the following.

- Four collinear points. _____
- A line that contains point M . _____
- A line that contains points H and K . _____
- Another name for line q . _____
- The intersection of lines p and r . _____



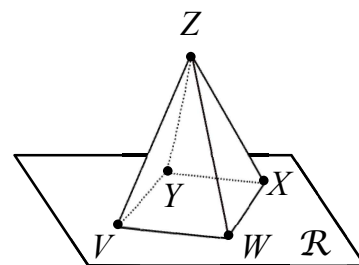
2. Use the diagram to the right to name the following.

- A line containing point F . _____
- Another name for line k . _____
- A plane containing point A . _____
- An example of three non-collinear points. _____
- The intersection of plane M and line k . _____



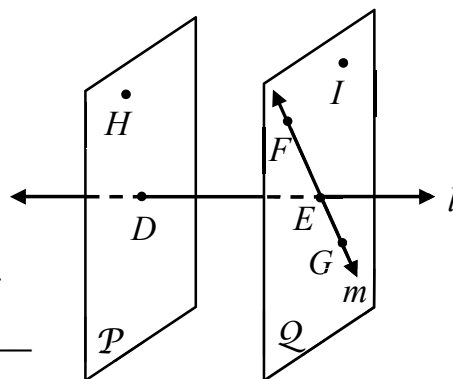
3. Use the diagram to the right to name the following.

- Three coplanar points. _____
- A plane containing point X . _____
- The intersection of plane R and plane ZVY . _____
- How many planes appear in the figure? _____
- How many planes contain point W ? _____

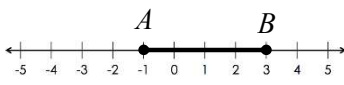
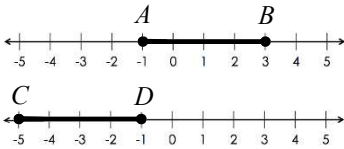
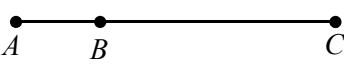
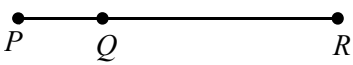
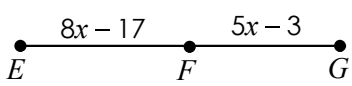
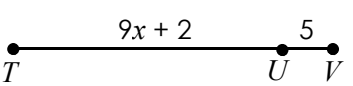
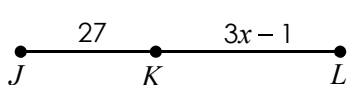
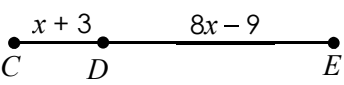


4. Use the diagram to the right to name the following.

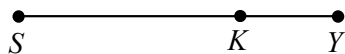
- The intersection of lines l and m . _____
- Another name for plane Q . _____
- Are points D and E collinear or coplanar? _____
- How many times do planes P and Q intersect? _____



Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples	
MEASURING SEGMENTS	The distance between two points A and B be written as _____ or _____.	 $AB = \underline{\hspace{2cm}}$
CONGRUENT SEGMENTS	If _____, then the segments are congruent. This is written as _____.	
SEGMENT ADDITION <i>Postulate</i>	If A, B, and C, are collinear points and B is between A and C, then _____	
Examples	Use the diagram below for questions 1 and 2. 	1. If $PQ = 9$ and $QR = 28$, find PR.
		2. If $QR = 17$ and $PR = 21$, find PQ.
	3. If $EG = 71$, find the value of x. 	4. If $TV = 14x - 8$, find TU. 
	5. If $JL = 5x + 2$, find JL. 	6. If $CE = 7x + 4$, find the value of x. 

7. If $SK = 13x - 5$, $KY = 2x + 9$, and $SY = 36 - x$, find each value.



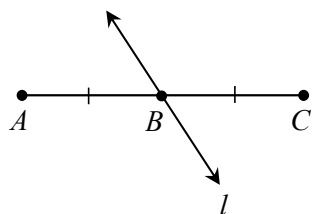
$x =$ _____

$SK =$ _____

$KY =$ _____

$SY =$ _____

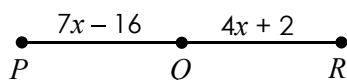
MIDPOINT of a Segment



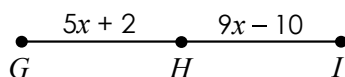
- The _____ of a segment is a point that divides the segment into _____.
- A line, ray, or segment that intersects a segment at its midpoint is said to _____ the segment and is called the _____.
- In the diagram to the left, _____ is the midpoint of _____ and line _____ is a _____ of _____.

Examples

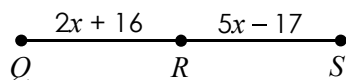
8. If Q is the midpoint of $\overline{PR}$, find the value of x .



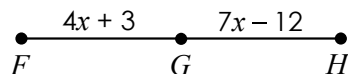
9. If H is the midpoint of $\overline{GI}$, find GH .



10. If R is the midpoint of $\overline{QS}$, find QS .



11. If G is the midpoint of $\overline{FH}$ and $FH = 6y - 2$, find y .

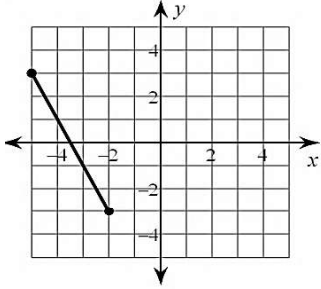


Name:

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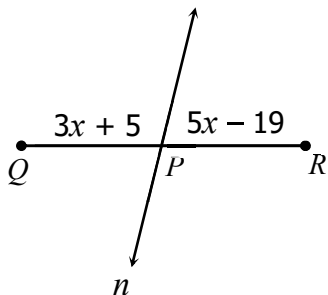
Main Ideas/Questions	Notes
Distance Formula	Used to find the distance between two points (x_1, y_1) and (x_2, y_2)
	Formula:
Examples	1. Find the distance between the two points on the graph. 
	2. Find AB given $A(-4, 1)$ and $B(3, -1)$.
	3. Find EF given $E(-7, -2)$ and $F(11, 3)$
Midpoint Formula	Used to find the midpoint between two points (x_1, y_1) and (x_2, y_2)
	Formula:
	4. Find the midpoint of $\overline{GH}$ given $G(7, -5)$ and $H(9, -1)$. 5. Find the midpoint of $\overline{AB}$ given $A(-7, 4)$ and $B(3, -4)$.

Finding a Missing Endpoint

6. Find the coordinates of A if $M(-1, 2)$ is the midpoint of $\overline{AB}$ and B has coordinates of $(3, -5)$.
7. Find the coordinates of J if $K(-5, 10)$ is the midpoint of $\overline{JL}$ and L has coordinates of $(-8, 6)$.
8. Find the coordinates of R if $Q(-1, 3)$ is the midpoint of $\overline{PR}$ and P has coordinates of $(5, 6)$.

More Practice with Algebra

9. If P is the midpoint of $\overline{XY}$, $XP = 8x - 2$, and $PY = 12x - 30$, find the value of x .
10. If G is the midpoint of $\overline{FH}$, $FG = 14x + 25$, and $GH = 73 - 2x$, find FH .
11. Using the diagram to the left, if line n bisects $\overline{QR}$, find QP .



Name:

Date:

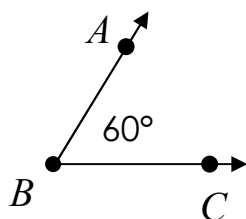
Topic:

Class:

Main Ideas/Questions

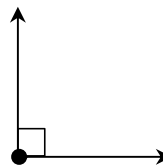
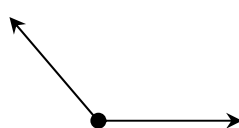
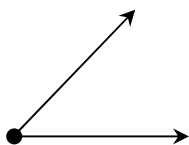
Notes

Angles

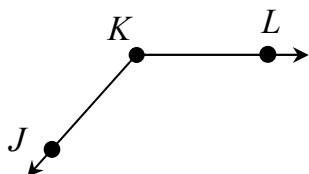


- An angle is formed by two _____ with a common endpoint.
- This common endpoint is called the _____.
- The rays are called the _____.
- Name an angle using _____ letters. The middle letter must always represent the vertex!
- Use a single letter if there is only one angle located at the vertex.
- When referring to the measure of an angle, use a lowercase m .
Example: $m\angle ABC = 60^\circ$

Types of Angles

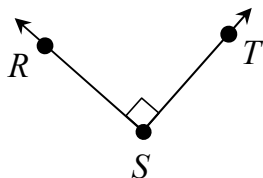


Example 1



- Name the vertex of the angle. _____
- Name the sides of the angle. _____
- Give three ways to name the angle.
_____, _____, _____
- Classify the angle. _____

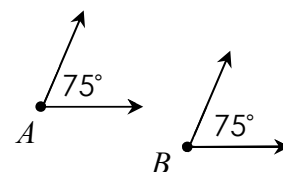
Example 2

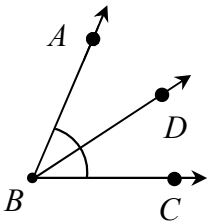
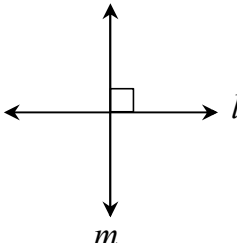
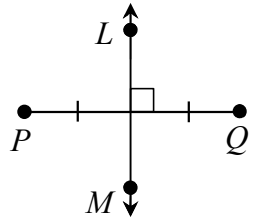
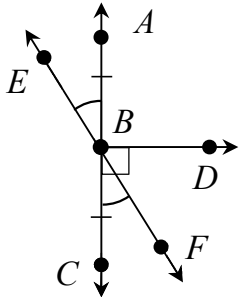
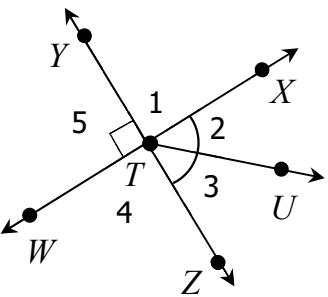


- Name the vertex of the angle. _____
- Name the sides of the angle. _____
- Give three ways to name the angle.
_____, _____, _____
- Classify the angle. _____

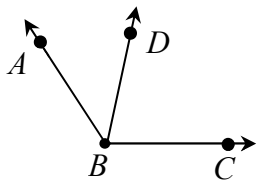
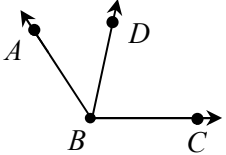
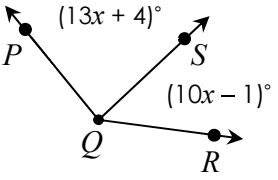
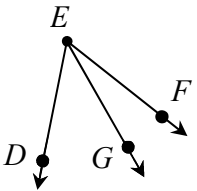
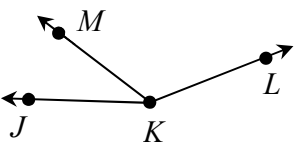
Congruent Angles

If _____, then the angles are congruent. This is written as _____.

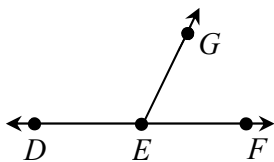


Angle Bisector	A _____ that divides an angle into _____. In the diagram to the right, _____ is an angle bisector, therefore, _____.	
Perpendicular Lines	Two lines that _____ at a _____. The symbol for perpendicular is _____. In the diagram to the right, _____.	
Perpendicular Bisector	A line, segment, or ray _____ to a segment at its _____. In the diagram to the right, _____ is the perpendicular bisector to _____.	
Example 3 	- Write another name for $\angle CBF$. _____ - Name the sides of $\angle EBD$. _____ - Classify $\angle ABC$. _____ - Give an example of an obtuse angle. _____ - Name two congruent angles. _____ - Name a perpendicular bisector. _____	
Example 4 	- Name the vertex of $\angle 2$. _____ - Name the sides of $\angle 4$. _____ - Write another name for $\angle 3$. _____ - Write another name for $\angle 1$. _____ - Classify $\angle YTW$. _____ - Classify $\angle YTU$. _____ - Classify $\angle XTU$. _____ - Classify $\angle WTX$. _____ - Name two perpendicular lines. _____ - Name an angle bisector. _____	

Name:	Date:
Topic:	Class:

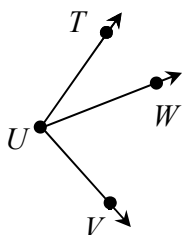
Main Ideas/Questions	Notes/Examples	
ANGLE ADDITION Postulate Examples	If D is in the interior of $\angle ABC$, then _____	
		
	Use the diagram below to answer questions 1 and 2.	1. If $m\angle ABD = 48^\circ$ and $m\angle DBC = 78^\circ$, find $m\angle ABC$.
		2. If $m\angle DBC = 74^\circ$ and $m\angle ABC = 119^\circ$, find $m\angle ABD$.
	3. If $m\angle PQR = 141^\circ$, find each measure.	
		$x = \underline{\hspace{2cm}}$ $m\angle PQS = \underline{\hspace{2cm}}$ $m\angle SQR = \underline{\hspace{2cm}}$
	4. If $m\angle DEF = (7x + 4)^\circ$, $m\angle DEG = (5x + 1)^\circ$, and $m\angle GEF = 23^\circ$, find each measure.	
		$x = \underline{\hspace{2cm}}$ $m\angle DEG = \underline{\hspace{2cm}}$ $m\angle DEF = \underline{\hspace{2cm}}$
	5. If $m\angle JKM = 43^\circ$, $m\angle MKL = (8x - 20)^\circ$, and $m\angle JKL = (10x - 11)^\circ$, find each measure.	
		$x = \underline{\hspace{2cm}}$ $m\angle MKL = \underline{\hspace{2cm}}$ $m\angle JKL = \underline{\hspace{2cm}}$

6. If $\angle DEF$ is a straight angle, $m\angle DEG = (23x - 3)^\circ$, and $m\angle GEF = (12x + 8)^\circ$, find each measure.



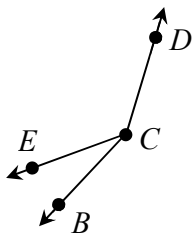
$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ m\angle DEG &= \underline{\hspace{2cm}} \\ m\angle GEF &= \underline{\hspace{2cm}} \\ m\angle DEF &= \underline{\hspace{2cm}} \end{aligned}$$

7. If $m\angle TUW = (5x + 3)^\circ$, $m\angle WUV = (10x - 5)^\circ$, and $m\angle TUV = (17x - 16)^\circ$, find each measure.



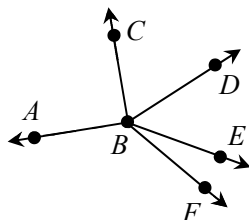
$$\begin{aligned} x &= \underline{\hspace{2cm}} \\ m\angle TUW &= \underline{\hspace{2cm}} \\ m\angle WUV &= \underline{\hspace{2cm}} \\ m\angle TUV &= \underline{\hspace{2cm}} \end{aligned}$$

8. If $m\angle ECD$ is six less than five times $m\angle BCE$, and $m\angle BCD = 162^\circ$, find each measure.



$$\begin{aligned} m\angle BCE &= \underline{\hspace{2cm}} \\ m\angle ECD &= \underline{\hspace{2cm}} \end{aligned}$$

Use the diagram to the left to answer questions 9 and 10.



9. If $m\angle ABF = (6x + 26)^\circ$, $m\angle EBF = (2x - 9)^\circ$, and $m\angle ABE = (11x - 31)^\circ$, find $m\angle ABF$.

10. If $\overrightarrow{BD}$ bisects $\angle CBE$, $\overrightarrow{BC} \perp \overrightarrow{BA}$, $m\angle CBD = (3x + 25)^\circ$, and $m\angle DBE = (7x - 19)^\circ$, find $m\angle ABD$.

VERTICAL ANGLES

Two angles **across** from each other on intersecting lines. They are always **congruent**!

Example:

ADJACENT ANGLES

Two angles that are **next to** each other and share a common side.

Example:

ANGLE Relationships

LINEAR PAIR

Two angles that are **adjacent** and **supplementary**. They form a **straight line**!

Example:

COMPLEMENTARY ANGLES

Any two angles whose **sum is 90°**

Example:

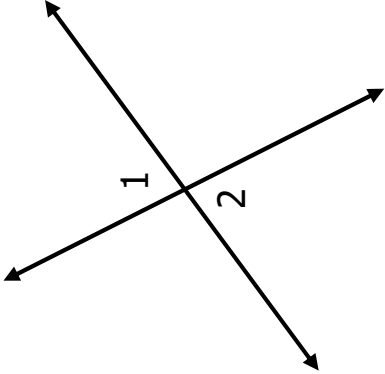
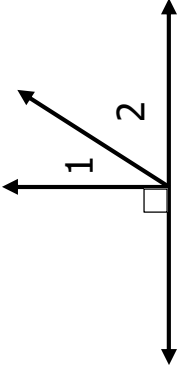
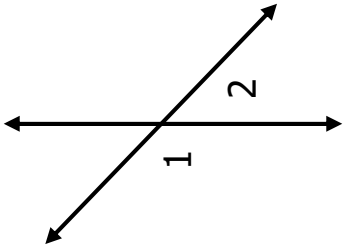
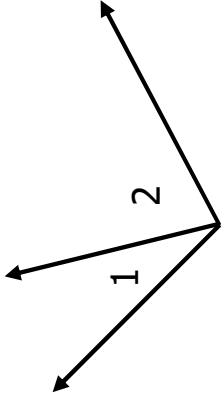
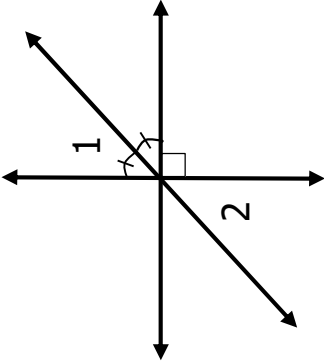
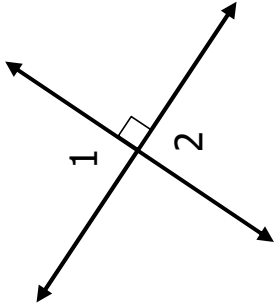
SUPPLEMENTARY ANGLES

Any two angles whose **sum is 180°**

Example:

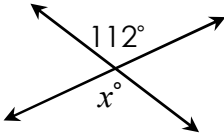
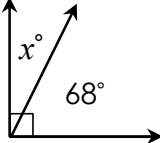
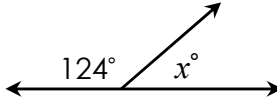
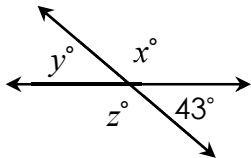
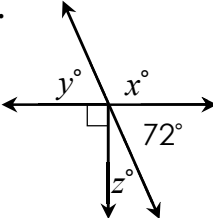
Identifying Types of Angles:

Check all relationships between $\angle 1$ and $\angle 2$.

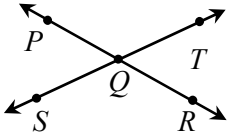
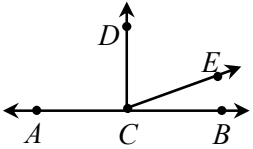
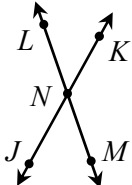
1 	2 
3 	4 
5 	6 

Using ANGLE RELATIONSHIPS to find ANGLE MEASURES

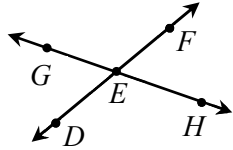
Directions: Find the missing measures in each figure. Keep the angle relationships in mind.

1. 	2. 	3. 
4. 	5. 	
6. $\angle 1$ and $\angle 2$ are vertical angles. If the measure of $\angle 2$ is 105° , find the measure of $\angle 1$.	7. $\angle A$ and $\angle B$ are complementary angles. If the measure of $\angle A$ is 42° , find the measure of $\angle B$.	
8. $\angle P$ and $\angle Q$ are supplementary angles. If the measure of $\angle Q$ is 64° , find the measure of $\angle P$.	9. $\angle 1$ and $\angle 2$ form a linear pair. If the measure of $\angle 1$ is 113° , find the measure of $\angle 2$.	

USING ALGEBRA

10. If $m\angle PQT = (3x + 47)^\circ$ and $m\angle SQR = (6x - 25)^\circ$, find the measure of $\angle SQR$. 
11. If $\overline{AB} \perp \overline{CD}$, $m\angle DCE = (7x + 2)^\circ$ and $m\angle ECB = (x + 8)^\circ$, find the measure of $\angle DCE$. 
12. If $m\angle KNM = (8x - 5)^\circ$ and $m\angle MNJ = (4x - 19)^\circ$, find the measure of $\angle KNM$. 

13. If $m\angle DEG = (5x - 4)^\circ$, $m\angle GEF = (7x - 8)^\circ$, $m\angle DEH = (9y + 5)^\circ$, find the values of x and y .



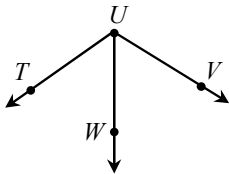
14. $\angle R$ and $\angle S$ are complementary angles. If $m\angle R = (12x - 3)^\circ$ and $m\angle S = (7x - 2)^\circ$, find $m\angle R$.

15. $\angle P$ and $\angle Q$ are supplementary angles. If $m\angle P = (4x + 1)^\circ$ and $m\angle Q = (9x - 3)^\circ$, find $m\angle Q$.

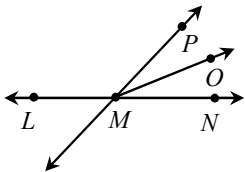
16. $\angle 1$ and $\angle 2$ form a linear pair. The measure of $\angle 2$ is six more than twice the measure of $\angle 1$. Find $m\angle 2$.

17. $\angle J$ and $\angle K$ are complementary angles. The measure of $\angle J$ is 18 less than the measure of $\angle K$. Find the measure of each angle.

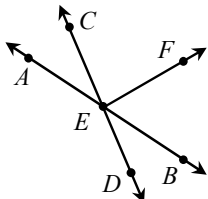
18. If $\overrightarrow{UW}$ bisects $\angle TUV$, $m\angle TUV = (13x - 5)^\circ$ and $m\angle WUV = (7x + 31)^\circ$, find the value of x .



19. If $\overrightarrow{MO}$ bisects $\angle PMN$, $m\angle PMN = 74^\circ$ and $m\angle OMN = (2x + 7)^\circ$, find the value of x .



20. If $\overrightarrow{EF}$ bisects $\angle CEB$, $m\angle CEF = (7x + 21)^\circ$ and $m\angle FEB = (10x - 3)^\circ$, find the measure of $\angle DEB$.



constructions!

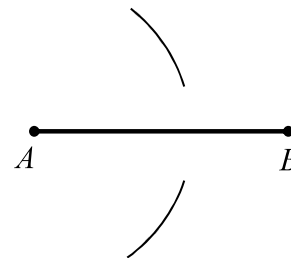
Follow the directions to create the basic constructions.

Type I: Perpendicular Bisector of a Segment

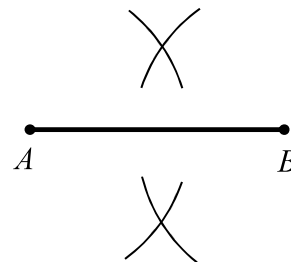
Goal: Draw the perpendicular bisector to $\overline{AB}$.



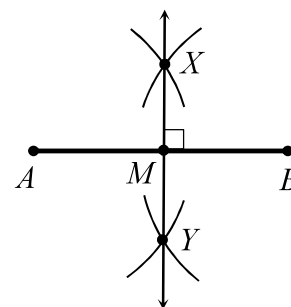
Step 1: Place the compass at point A . Adjust the radius so it's more than one half the length of the segment. Draw two arcs as shown.



Step 2: Keeping the same compass radius, place the compass on point B . Draw two more arcs intersecting the previous arcs. Label the intersection points X and Y .

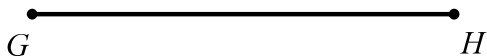


Step 3: Using a straight edge, draw $\overleftrightarrow{XY}$. Label the intersection M .

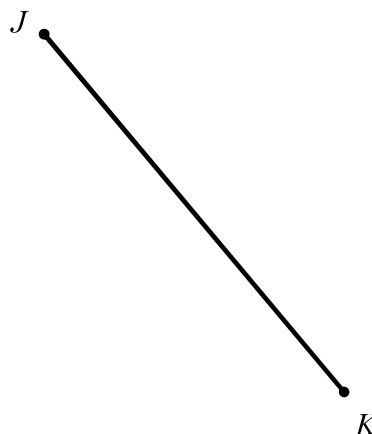


Now you Try! Draw the perpendicular bisector of each given segment.

1)

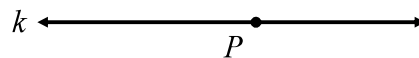


2)

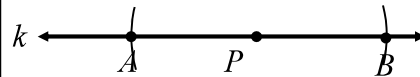


Type 2: Perpendicular through a Point on the Line

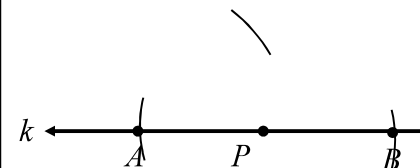
Goal: Draw a line perpendicular to line k , through point P .



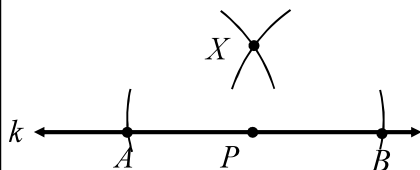
Step 1: Place the compass on point P . Using any radius, draw arcs intersecting line k at two points. Label the intersection points A and B .



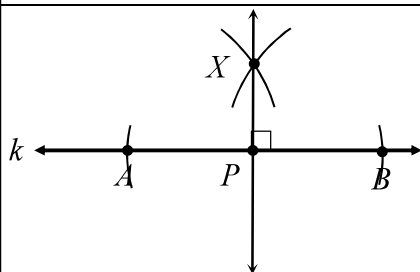
Step 2: Place the compass at point A . Adjust the radius so it's more than one half the length of $\overline{AB}$. Draw an arc as shown.



Step 3: Keeping the same radius, place the compass at point B . Draw an arc intersecting the previously drawn arc. Label the intersection point X .

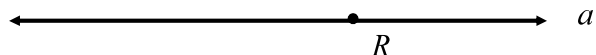


Step 4: Using a straightedge, draw $\overleftrightarrow{XP}$.

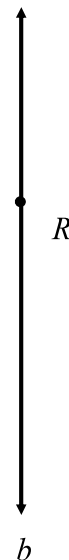


Now you Try! Draw a line perpendicular to the given line, through point R .

1)

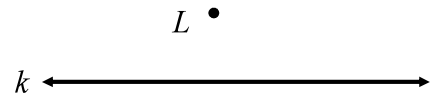


2)

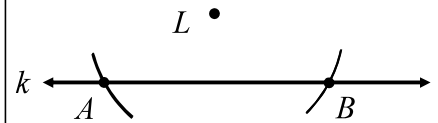


Type 3: Perpendicular through a Point not on the Line

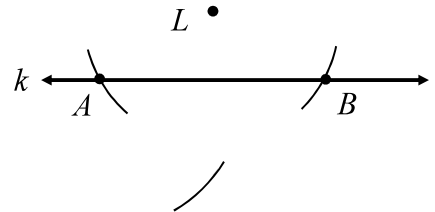
Goal: Draw a line perpendicular to line k , through point L .



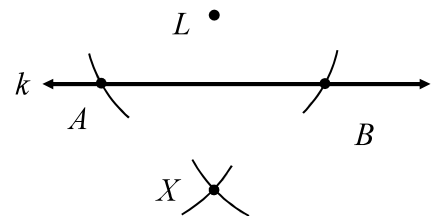
Step 1: Place the compass on point L . Using any radius, draw arcs intersecting line k at two points. Label the intersection points A and B .



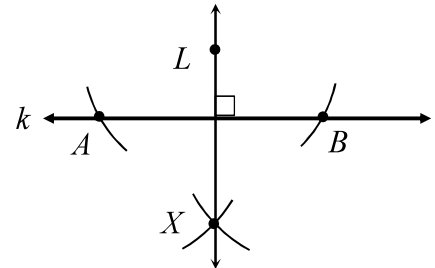
Step 2: Place the compass at point A . Adjust the radius so it's more than one half the length of AB . Draw an arc as shown.



Step 3: Keeping the same radius, place the compass at point B . Draw an arc intersecting the previously drawn arc. Label the intersection point X .



Step 4: Using a straightedge, draw $\overleftrightarrow{LX}$.



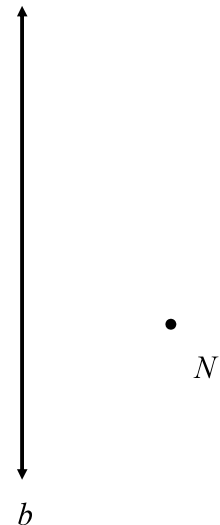
Now you Try! Draw a line perpendicular to the given line, through point N .

1)

• N



2)



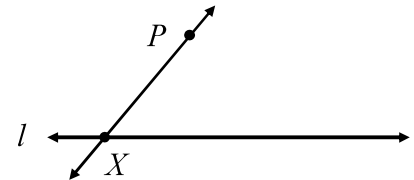
Type 4: Line Parallel to a Given Line, through a Given Point

Goal: Draw a line parallel to line l , through point P .

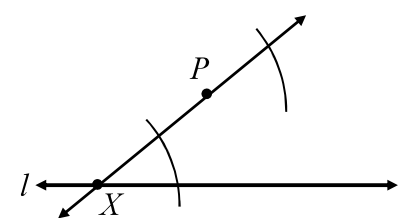
$P \bullet$

$l \longleftrightarrow$

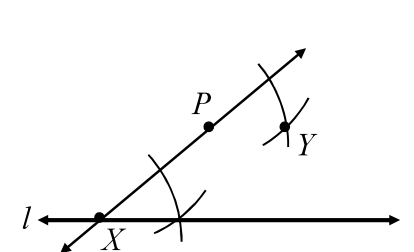
Step 1: Using a straightedge, draw a line through point P , intersecting line l as shown. Label the intersection point X .



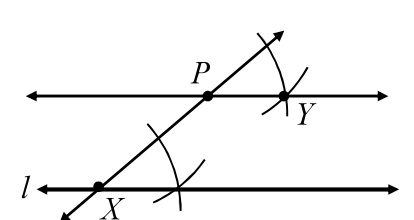
Step 2: Place the compass on point X and draw an arc intersecting both lines. Keeping the same radius, place the compass on point P and draw another arc.



Step 3: Set the compass radius to the distance between the two intersection points of the first arc. Now, place the compass at the point where the second arc intersected $\overleftrightarrow{PX}$. Draw another arc, and mark this intersection point Y .



Step 4: Using a straightedge, draw $\overleftrightarrow{PY}$.



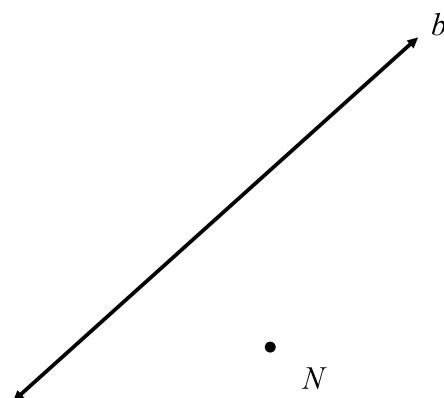
Now you Try! Draw a line parallel to the given line, through point N .

1)

$\bullet N$

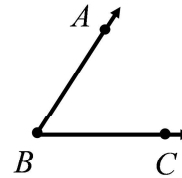
$\longleftrightarrow a$

2)

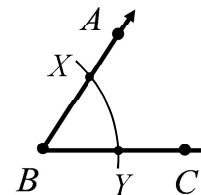


Type 5: Angle Bisector

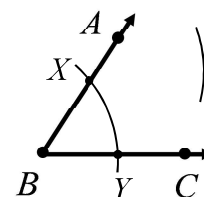
Goal: Construct the bisector of $\angle ABC$.



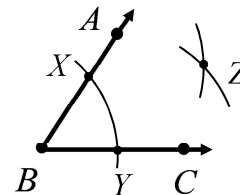
Step 1: Place the compass on the vertex of the angle. Draw an arc that intersects both sides of the angle. Label the intersection points X and Y .



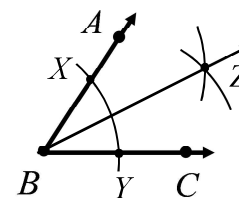
Step 2: Place the compass on point X and draw an arc on the interior of the angle.



Step 3: Without changing the radius, place the compass on point Y and draw another arc, intersecting the arc drawn in the last step. Label the intersection point Z .

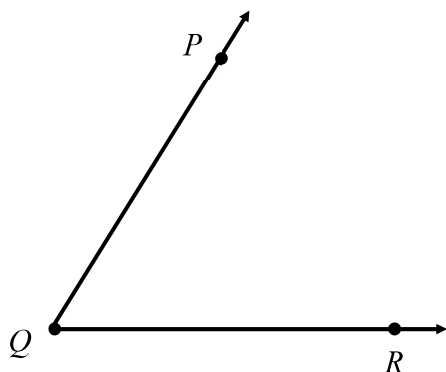


Step 4: Using a straightedge, draw $\overrightarrow{BZ}$.

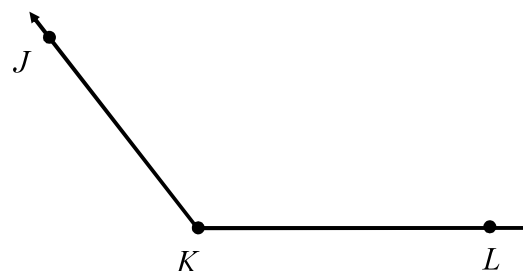


Now you Try! Construct the bisector of each given angle.

1)

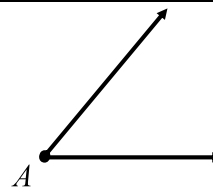


2)

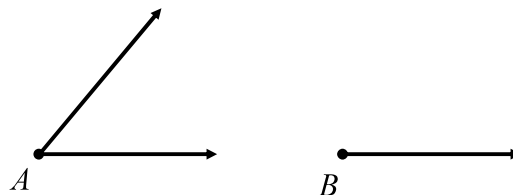


Type 6: Congruent Angles

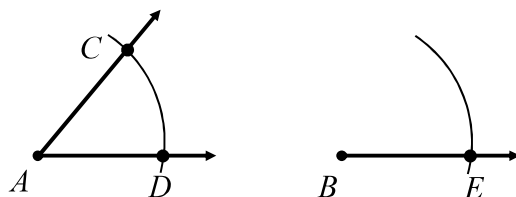
Goal: Construct an angle congruent to $\angle A$.



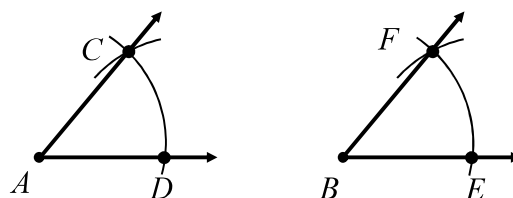
Step 1: Begin by drawing a ray with endpoint B .



Step 2: Place the compass on point A and draw an arc intersecting both sides of the angle. Without changing the radius, place the compass on point B and draw a long arc. Label the intersection points as C , D , and E .

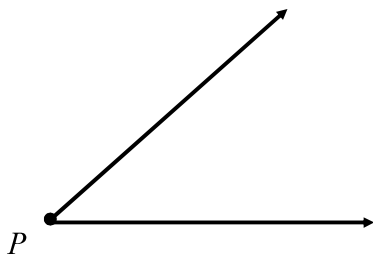


Step 3: Set the radius of the compass to the length of CD . Place the compass on point E and draw an arc intersecting the previous arc. Label the intersection point F . Draw $\overrightarrow{BF}$.

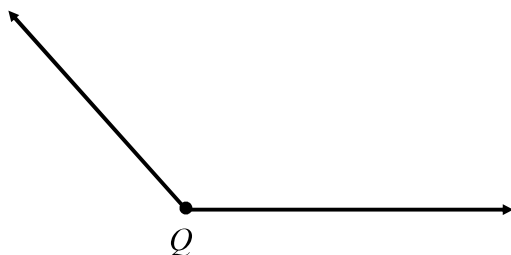


Now you Try! Given each angle, construct a congruent angle.

1)



2)

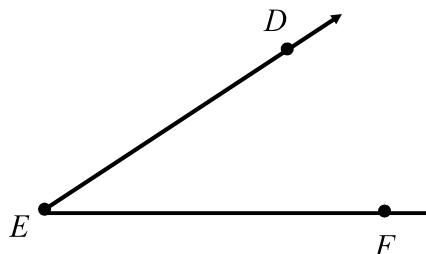




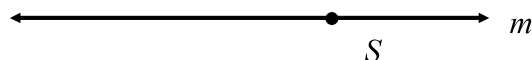
More Constructions Practice!

Create each construction using your compass and straightedge.

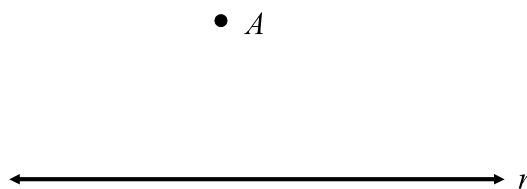
1. Construct the bisector of $\angle DEF$.



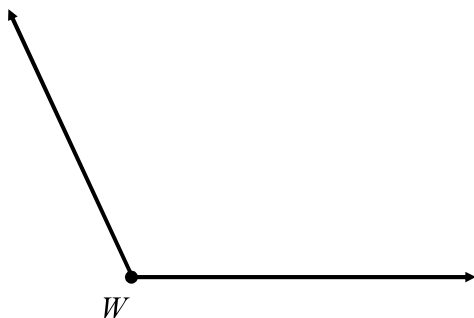
2. Construct a line perpendicular to line m , through point S .



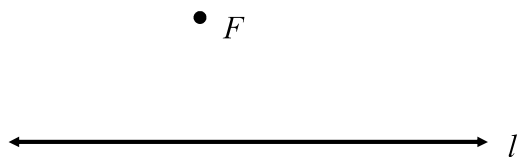
3. Construct a line parallel to line r , through point A .



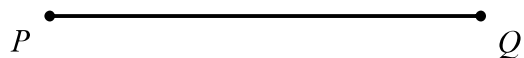
4. Construct an angle congruent to $\angle W$.



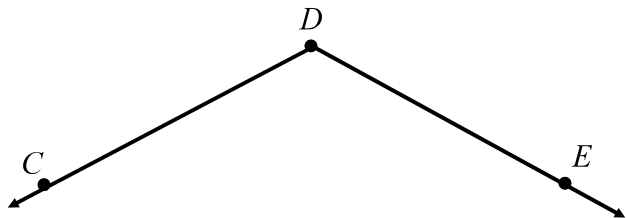
5. Construct a line perpendicular to line l , through point F .



6. Construct the perpendicular bisector of $\overline{PQ}$.



7. Construct the bisector of $\angle CDE$.



8. Construct a line parallel to line p , through point M .

