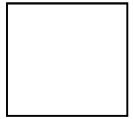


Name: _____

Unit 1: Geometry Basics

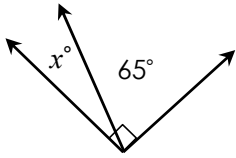


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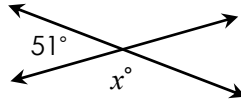
Homework 5: Angle Relationships

**** This is a 2-page document! ****

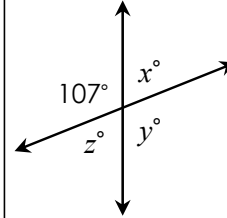
1. Find the missing measure.



2. Find the missing measure.



3. Find the missing measures.



4. If the measure of an angle is 13° , find the measure of its supplement.

5. If the measure of an angle is 38° , find the measure of its complement.

6. $\angle 1$ and $\angle 2$ form a linear pair. If $m\angle 1 = (5x + 9)^\circ$ and $m\angle 2 = (3x + 11)^\circ$, find the measure of each angle.

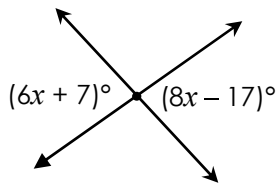
7. $\angle 1$ and $\angle 2$ are vertical angles. If $m\angle 1 = (17x + 1)^\circ$ and $m\angle 2 = (20x - 14)^\circ$, find $m\angle 2$.

8. $\angle K$ and $\angle L$ are complementary angles. If $m\angle K = (3x + 3)^\circ$ and $m\angle L = (10x - 4)^\circ$, find the measure of each angle.

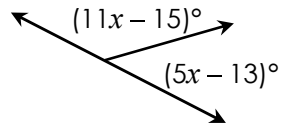
9. If $m\angle P$ is three less than twice the measure of $\angle Q$, and $\angle P$ and $\angle Q$ are supplementary angles, find each angle measure.

10. If $m\angle B$ is two more than three times the measure of $\angle C$, and $\angle B$ and $\angle C$ are complementary angles, find each angle measure.

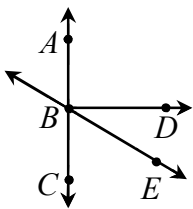
11. Find the value of x .



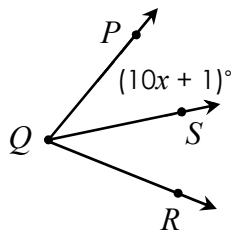
12. Find the value of x .



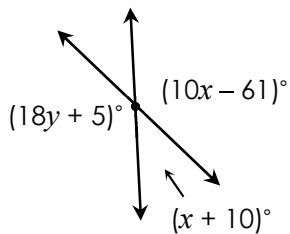
13. If $\overline{BD} \perp \overline{AC}$, $m\angle DBE = (2x - 1)^\circ$, and $m\angle CBE = (5x - 42)^\circ$, find the value of x .



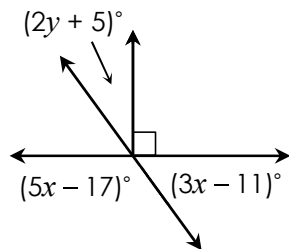
14. Find the value of x if \overline{QS} bisects $\angle PQR$ and $m\angle PQR = 82^\circ$.



15. Find the values of x and y .



16. Find the values of x and y .



17. If \overline{NP} bisects $\angle MNQ$, $m\angle MNQ = (8x + 12)^\circ$, $m\angle PNQ = 78^\circ$, and $m\angle RNM = (3y - 9)^\circ$, find the values of x and y .

