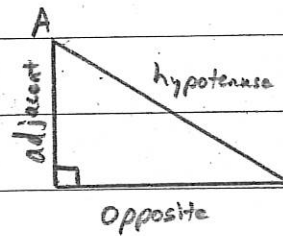


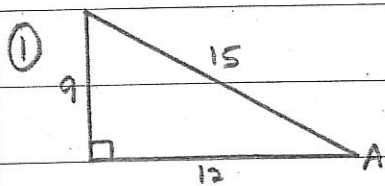
# Trigonometric Ratios

| <u>Name</u>           | <u>Written</u> | <u>Definition</u>                           |
|-----------------------|----------------|---------------------------------------------|
| Sine of $\angle A$    | $\sin A$       | $\frac{\text{opposite}}{\text{hypotenuse}}$ |
| Cosine of $\angle A$  | $\cos A$       | $\frac{\text{adjacent}}{\text{hypotenuse}}$ |
| Tangent of $\angle A$ | $\tan A$       | $\frac{\text{opposite}}{\text{adjacent}}$   |



## SOHCAHTOA

What are  $\sin A$ ,  $\cos A$ , and  $\tan A$  for the triangle?



$$\sin A = \frac{9}{15} \quad \tan A = \frac{9}{12}$$

$$\cos A = \frac{12}{15}$$

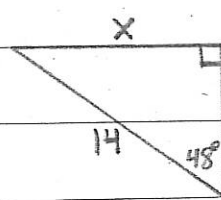
Find the value of each expression.  
Round - ten-thousandth

$$\textcircled{2} \sin 23^\circ = \textcircled{.3907}$$

$$\textcircled{3} \cos 84^\circ = \textcircled{.1045}$$

$$\textcircled{4} \tan 56^\circ = \textcircled{1.4826}$$

Find the value of  $x$  to the  
nearest tenth.



$$\sin 48^\circ = \frac{x}{14}$$

$$x = 14(\sin 48^\circ)$$

$$\textcircled{x \approx 10.4}$$