## **Inverse Right Triangle Trigonometry**

Examples: Solve for x.

Set up the trigonometric ratio based on what is known. Use the <u>inverse</u> trigonometric function of both sides of the equation to find the measure of the <u>that will yield the</u> ratio.

1)  $\frac{x}{10}$   $\frac{3}{10}$   $\sin x = \frac{3}{10}$   $\sin x = \sin (\frac{3}{10})$   $\frac{3}{10}$   $\frac{3}{10}$ 

2) 15m add 27m 27m

tan  $x = \frac{8}{14}$ tan'  $(tan x) = tan'(\frac{8}{14})$   $tan' (tan x) = tan'(\frac{8}{14})$ 

\* Inverse trig UNDOES a specific tria function to find the angle measure, so answer should be labeled in degrees!