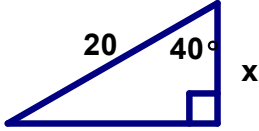
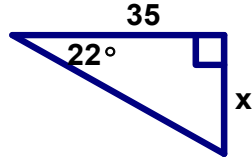


Write a trig. equation and then find x to the nearest hundredth.



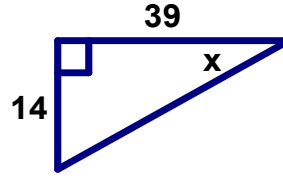
equation: $\cos 40^\circ = \frac{x}{20}$

$x = 20 \cdot \cos 40^\circ$
 $= 15.32$



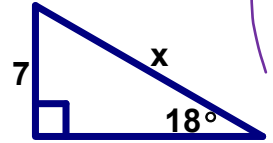
equation: $\tan 22^\circ = \frac{x}{35}$

$x = 35 \tan 22^\circ$
 $= 14.14$



equation: $\tan x = \frac{14}{39}$

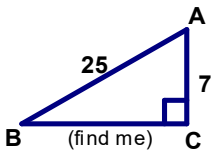
$x = \tan^{-1}\left(\frac{14}{39}\right) = 19.75^\circ$



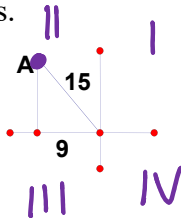
equation: $\sin 18^\circ = \frac{7}{x}$
 $x \sin 18^\circ = 7$

$x = \frac{7}{\sin 18^\circ} = 22.65$

The Coordinate Plane – Fill in the blanks.

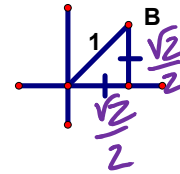


$\tan \angle B =$



coordinates of point A:

$(-9, 12)$



coordinates of point B:

$(\frac{\sqrt{2}}{2}, \frac{\sqrt{2}}{2})$

$x\sqrt{2} = 1$
 $x = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}}$
 $= \frac{\sqrt{2}}{2}$

Solve the triangle below:

