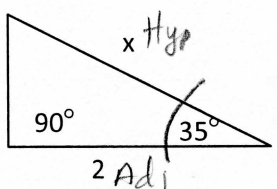


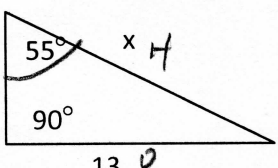
Topic 26: Using Trigonometry to solve for the length of sides  
Quiz Version PRACTICE

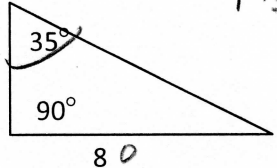
$$\sin \angle = \frac{O}{H}$$

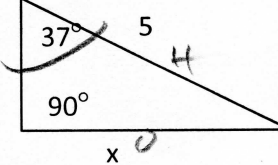
$$\cos \angle = \frac{A}{H}$$

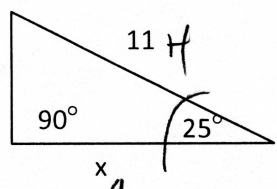
$$\tan \angle = \frac{O}{A}$$

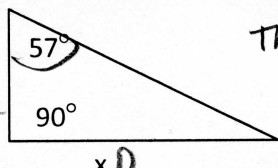
1)   $\cos(35) = \frac{2}{x}$   
 $x = \frac{2}{\cos(35)}$

2)   $\sin(55) = \frac{13}{x}$   
 $x = \frac{13}{\sin(55)}$

3)   $\tan(35) = \frac{x}{80}$   
 $x = \frac{80}{\tan(35)}$

4)   $\sin(37) = \frac{x}{5}$   
 $x = 5 \sin(37)$

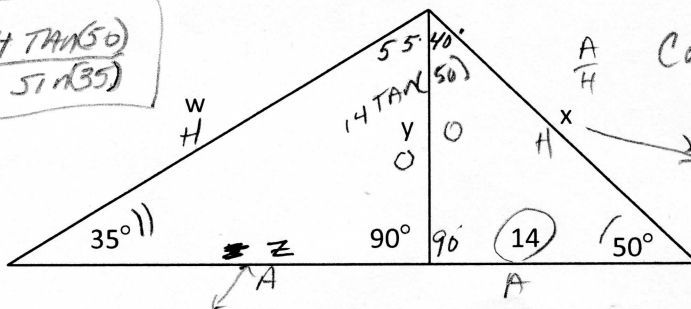
5)   $\cos(25) = \frac{x}{11}$   
 $x = 11 \cos(25)$

6)   $\tan(57) = \frac{5}{x}$   
 $x = 5 \tan(57)$

7)  $\sin(35) = \frac{14 \tan(50)}{w}$

$\tan(50) = \frac{y}{14}$   
 $y = 14 \tan(50)$

$w = \frac{14 \tan(50)}{\sin(35)}$



$\cos(50) = \frac{14}{x}$

$x = \frac{14}{\cos(50)}$

$\tan(35) = \frac{14 \tan(50)}{z}$

$z = \frac{14 \tan(50)}{\tan(35)}$