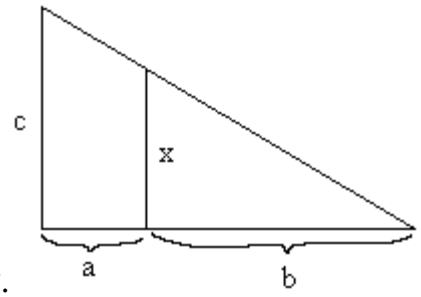
M126 Worksheet 1.2 & 1.3 Trig Functions Name_____



1) The triangles are similar. Find x.
   a = 30
   b = 90
   c = 52

2) Suppose that θ is in standard position and the given point is on the terminal side of θ. Give the exact value of all six indicated trig function for θ.
   (12, 16)

3) Suppose that θ is in standard position and the given point is on the terminal side of θ. Give the exact value of all six indicated trig function for θ.
   (0, -4).

1) $x = 39$

2) $\sin\theta = \frac{4}{5}$; $\cos\theta = \frac{3}{5}$; $\tan\theta = \frac{4}{3}$;

$\sec\theta = \frac{5}{3}$; $\csc\theta = \frac{5}{4}$; $\cot\theta = \frac{3}{4}$

3) $\sin\theta = -1$; $\cos\theta = 0$; $\tan\theta$ = undef;
$\sec\theta$ = undef; $\csc\theta = -1$; $\cot\theta = 0$