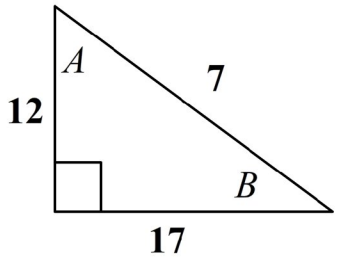
Trig - Worksheet - 1

1. Find the missing side for the following right triangle.
   a. Find c, given a = 6 and b = 8
   b. Find b, given a = 3 and c = 10
   c. Find a, given b = 5 and c = 7

2. Given the triangle to the right, identify the following:



   a. sin$A$ = b. cos$A$ =

   c. tan$B$ = d. cot$B$ =

   e. sec$B$ = f. csc$A$ =

3. Circle the quadrants that correctly answer the following questions.

   1 2 3 4 a. What quadrant(s) is sin negative?

   1 2 3 4 b. What quadrant(s) is tan positive?

   1 2 3 4 c. What quadrant(s) is cos negative and cot negative?

   1 2 3 4 d. What quadrant(s) is sec positive and csc negative?

4. Rewrite the following trig identities in terms of sin and/or cos.

   a. csc$A$ = b. $\dfrac{1}{\sec A}$ =

   c. tan$B$ = d. cot$B$ =

   e. sec$B$ cot$B$ = f. csc$A$ sin$A$ =

5. In each of the following identify the reference angle quadrants and the two angles for which the statement is true.

	quadrants	*ref angle*	*angle 1*	*angle 2*
a. cos$A$ = $\frac{1}{2}$				
b. sin$A$ = $-\frac{\sqrt{2}}{2}$				
c. cot$A$ = -1				