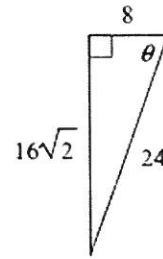


Pre-Calculus 1
Worksheet 1-1.5

Name _____

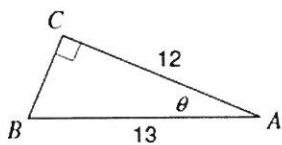
1. Write the values of the trigonometric functions of angle θ .



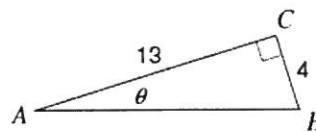
2. In right triangle $\triangle ABC$, with right angle C and $\tan(B) = \frac{21}{20}$, find the value of the remaining trigonometric functions for angle B .

3. Find the values of sine, cosine, and tangent of angle θ .

a.



b.



4. The distance between $(-3, 4)$ and $(x, 0)$ is $\sqrt{41}$. Find ALL possible values of x .

5. Use special right triangles to find the exact values of each of the following. (Exact values means fractions with simplified radicals).

a. $\sin 45^\circ$

b. $\cos 60^\circ$

c. $\tan 30^\circ$

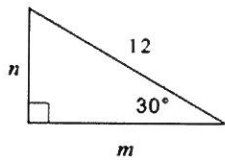
d. $\sec 45^\circ$

e. $\cot 60^\circ$

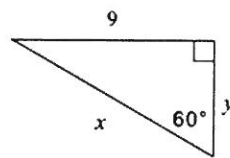
f. $\csc 30^\circ$

6. Find the exact value of the missing sides in the triangles below. Hint: These are special right triangles.

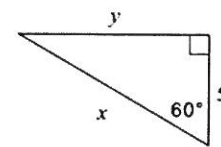
a.



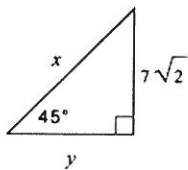
b.



c.



d.



e.

