

Precalc Ch 7 PPP

1) Find the exact value of the six trig functions of θ .

$$\sin \theta =$$

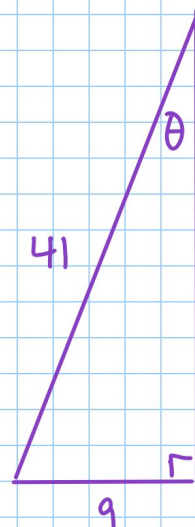
$$\csc \theta =$$

$$\cos \theta =$$

$$\sec \theta =$$

$$\tan \theta =$$

$$\cot \theta =$$



2) Solve the triangle with $a=16$, $\beta=34^\circ$, and $\alpha=71^\circ$
Find its area

$$Y = \underline{\hspace{2cm}}$$

$$b = \underline{\hspace{2cm}}$$

$$c = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$

3) Solve the triangle with $a=9.3$, $b=40.1$, $c=43.2$
Find its area.

$$\alpha = \underline{\hspace{2cm}}$$

$$\beta = \underline{\hspace{2cm}}$$

$$\gamma = \underline{\hspace{2cm}}$$

$$\text{Area} = \underline{\hspace{2cm}}$$

4) A person stands away from a monument, looking up at the top.
The angle of elevation to the top of the monument is 63° .
The person then walks 101 ft directly away from the monument
and measures the angle of elevation as 58° . How
tall is the monument?

5) An admirer of art is looking at a statue on top of a building. If the admirer is 125 m from the building how tall is the statue if the angle of elevation to the bottom of the statue is 73° and to the top of the statue is 78° ?

6) Sonny and Cher are carpeting a weird triangular stage for a performance. The dimensions of the stage are 65 ft by 75 ft by 100 ft. If the carpeting costs \$11 per square yard, how much will they spend on carpeting? (Have to round up, can't buy a fraction of a yd²)