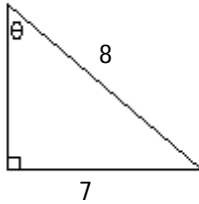


Find the value of the indicated trigonometric function of the angle θ in the figure. Give an exact answer with a rational denominator.

1)

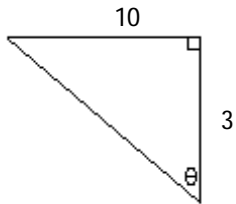
1) _____



Find $\cos \theta$.

2)

2) _____



Find $\cot \theta$.

Find the exact value of the expression. Do not use a calculator.

3) $\csc^2 25^\circ - \tan^2 65^\circ$

A) 0

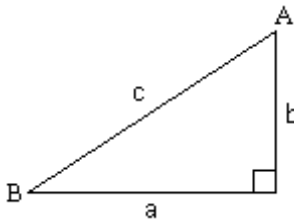
B) 1

C) -1

D) 2

3) _____

Solve the right triangle using the information given. Round answers to two decimal places, if necessary.



4) $a = 6$, $b = 3$; Find c , A , and B .

4) _____

Solve the problem.

5) A tree casts a shadow of 26 meters when the angle of elevation of the sun is 24° . Find the height of the tree to the nearest meter.

A) 10 m

B) 11 m

C) 12 m

D) 13 m

5) _____

6) From the edge of a 1000-foot cliff, the angles of depression to two cars in the valley below are 21° and 28° . How far apart are the cars? Round your answers to the nearest 0.1 ft.

A) 713.4 ft

B) 714.4 ft

C) 724.5 ft

D) 724.4 ft

6) _____