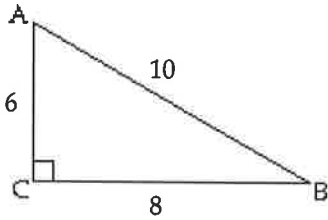Name_____

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Evaluate the function requested. Write your answer as a fraction in lowest terms.

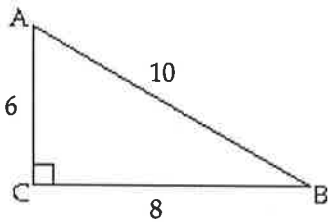1)   1) _____

Find sin A.

2)   2) _____

Find cos A.
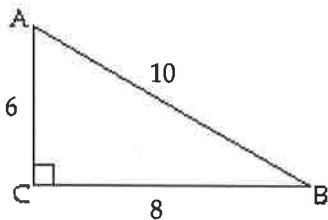
Evaluate the function indicated.

3) Given $\cos A = \dfrac{3}{5}$, determine $\tan A$ exactly.   3) _____

Evaluate the function requested. Write your answer as a fraction in lowest terms.

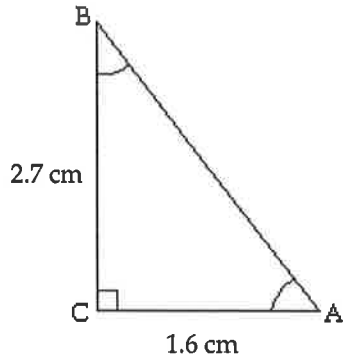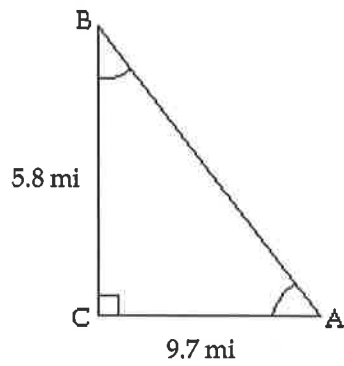4)   4) _____

Find tan B.

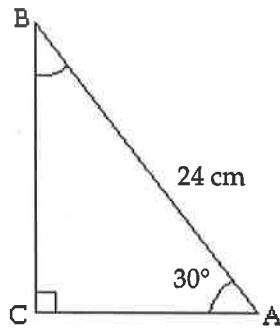**Solve the right triangle. Round angles to the nearest degree and sides to the nearest tenth.**

5)

```
        B
        |\
        | \
        |  \
2.7 cm  |   \
        |    \
        |     \
        C_____A
         1.6 cm
```

5) _____

6)

```
        B
        |\
        | \
        |  \
5.8 mi  |   \
        |    \
        |     \
        C_____A
         9.7 mi
```

6) _____

7)

```
        B
        |\
        | \
        |  \
        |   \  24 cm
        |    \
        |  30°\
        C_____A
```
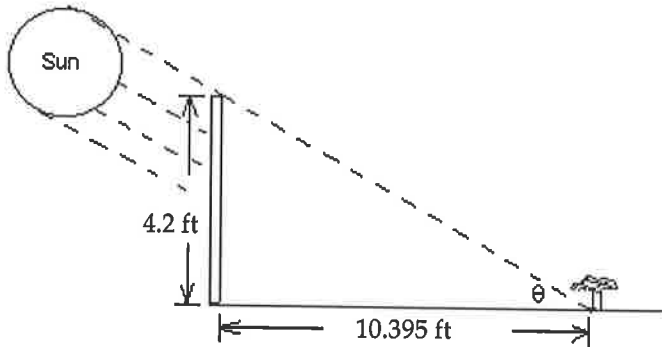
7) _____

2

Solve the problem.

8) A 4.2-foot fence is 10.395 feet away from a plant in the direction of the sun. It is observed that the shadow of the fence extends exactly to the bottom of the plant. Find θ, the angle of elevation of the sun at that time. Round the measure of the angle to the nearest tenth of a degree.
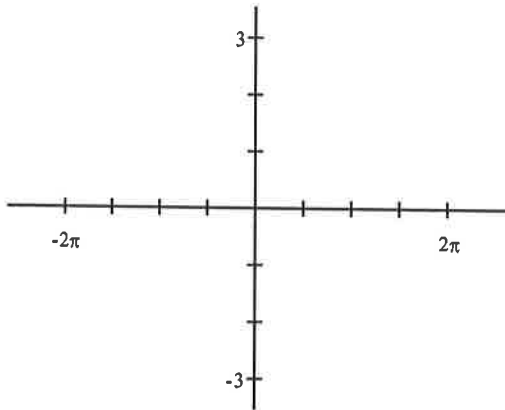
8) _____

Use a graphing calculator to graph the function using the given viewing window parameters.

9) $y = -2 \cos x$

9) _____

10) $y = 4 \sin\left(x \bullet \dfrac{\pi}{4}\right)$

10) _____

3