Name_____ Date_____

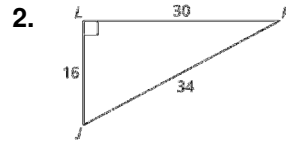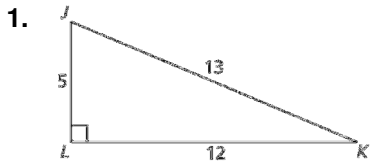## 9.5 Practice A

In Exercises 1 and 2, find sin *J*, sin *K*, cos *J*, and cos *K*. Write each answer as a fraction and as a decimal rounded to four places.

1.

2.

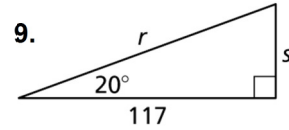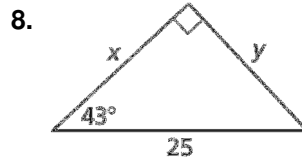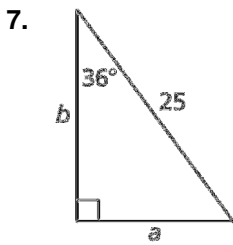**In Exercises 3–6, write the expression in terms of sine or cosine.**
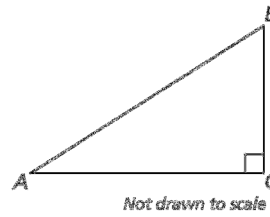
3. $\sin 22°$

4. $\cos 56°$

5. $\cos 15°$

6. $\sin 37°$

In Exercises 7–9, find the value of each variable using sine and cosine. Round your answers to the nearest tenth.

7.
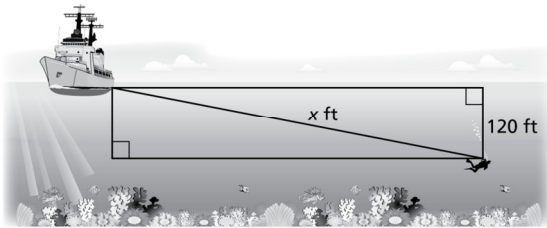
8.

9.

10. Which statement *cannot* be true? Explain.

A. $\sin A = 0.5$ **B.** $\sin A = 1.2654$

C. $\sin A = 0.9962$ **D.** $\sin A = \dfrac{3}{4}$

Not drawn to scale

11. The angle of depression is 11° from the bottom of a boat to a deep sea diver at a depth of 120 feet. Find the distance x the diver must swim up to the boat to the nearest foot.

x ft

120 ft

9.5 Practice B

In Exercises 6–8, find the value of each variable using sine and cosine.
Round your answers to the nearest tenth.

6.

p

20°

12

q

7.

39°

y

44

x

8.

57°

b

a

14