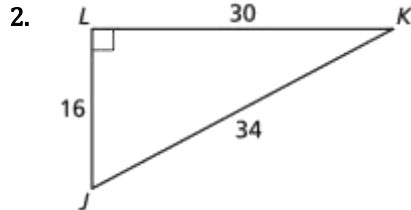
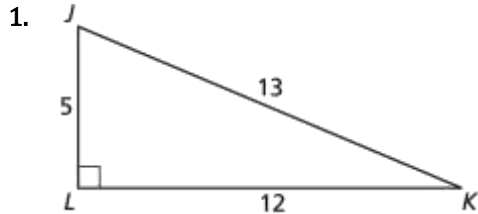


HW 9.5 The Sine and Cosine Ratios

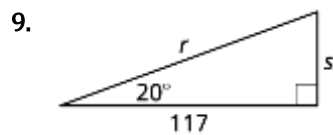
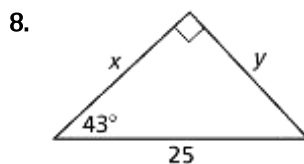
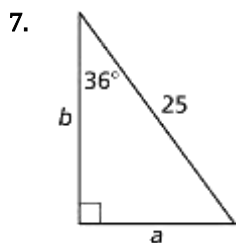
In Exercises 1 and 2, find $\sin J$, $\sin K$, $\cos J$, and $\cos K$. Write each answer as a fraction and as a decimal rounded to four places.



In Exercises 3–6, write the expression in terms of sine or cosine.

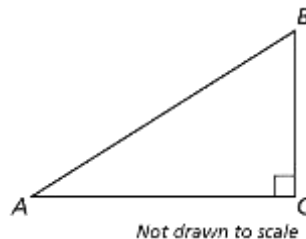
3. $\sin 22^\circ$ 4. $\cos 56^\circ$ 5. $\cos 15^\circ$ 6. $\sin 37^\circ$

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



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

- A. $\sin A = 0.5$ B. $\sin A = 1.2654$
 C. $\sin A = 0.9962$ D. $\sin A = \frac{3}{4}$



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.

