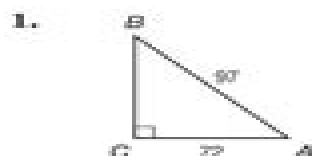


**10-6 Practice****Trigonometric Ratios**Find the values of the three trigonometric ratios for angle  $A$ .

$$\sin A = \frac{65}{97}, \cos A = \frac{72}{97}, \tan A = \frac{65}{72}$$



$$\sin A = \frac{36}{39}, \cos A = \frac{15}{39}, \tan A = \frac{36}{15}$$

Use a calculator to find the value of each trigonometric ratio to the nearest ten-thousandth.

3.  $\tan 26^\circ$  0.4877

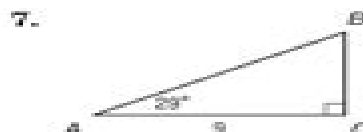
4.  $\sin 53^\circ$  0.7986

5.  $\cos 81^\circ$  0.1564

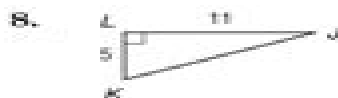
Solve each right triangle. Round each side length to the nearest tenth.



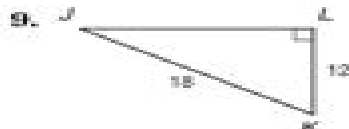
$$\angle B = 23^\circ, AB = 23.9, AC = 9.3$$



$$\angle A = 61^\circ, AB = 10.3, BC = 5.0$$

Find  $m\angle J$  for each right triangle to the nearest degree.

$$24^\circ$$



$$42^\circ$$

10. **SURVEYING** If point  $A$  is 54 feet from the tree, and the angle between the ground at point  $A$  and the top of the tree is  $25^\circ$ , find the height  $h$  of the tree.

$$25.2 \text{ ft}$$



# Lesson 8 2 Problem Solving Trigonometric Ratios

## Answers

**N Noddings**



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