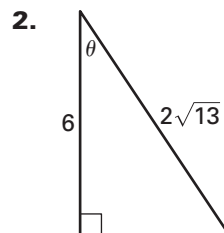
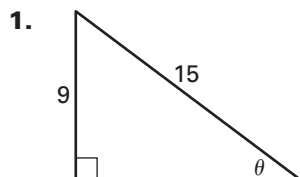


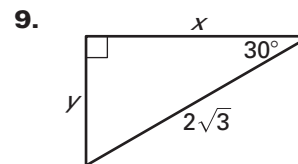
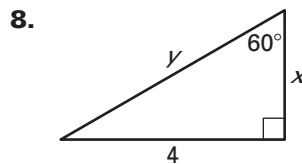
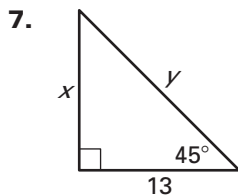
**LESSON**  
**13.1****Practice***For use with pages 852–858***Evaluate the six trigonometric functions of the angle  $\theta$ .****Let  $\theta$  be an acute angle of a right triangle. Find the values of the other five trigonometric functions of  $\theta$ .**

3.  $\sin \theta = \frac{4}{5}$

4.  $\cos \theta = \frac{5}{6}$

5.  $\sec \theta = \frac{\sqrt{73}}{8}$

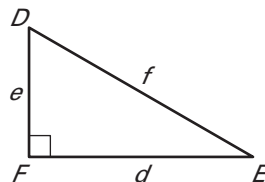
6.  $\cot \theta = \sqrt{3}$

**Find the exact values of  $x$  and  $y$ .**

**LESSON**  
**13.1**
**Practice** *continued*  
*For use with pages 852–858*

**Solve  $\triangle DEF$  using the diagram and the given measurements.**

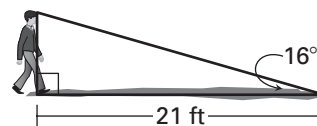
10.  $D = 40^\circ, f = 8$



11.  $E = 53^\circ, d = 13$

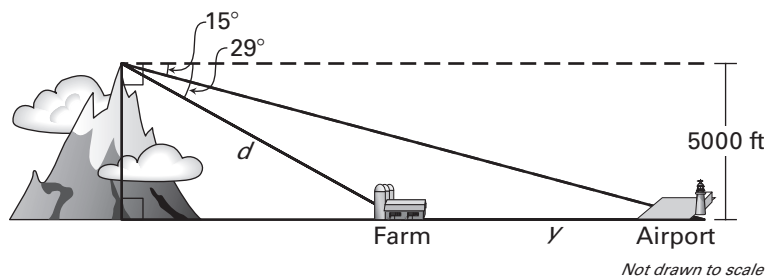
12.  $D = 67^\circ, e = 10.5$

13. **Shadow** A person casts the shadow shown.  
What is the approximate height of the person?



14. **Mountains** A hiker at the top of a mountain sees a farm and an airport in the distance.

- a. What is the distance  $d$  from the hiker to the farm?



- b. What is the distance  $y$  from the farm to the airport?