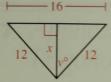
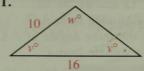
10. H



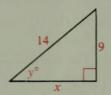
11.



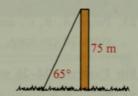
12.



- **13. a.** Use the Pythagorean Theorem to find the value of x in radical form
 - **b.** Use trigonometry to find the values of y, then x.
 - **c.** Are the values of x from parts (a) and (b) in reasonable agreement?



B 14. A guy wire is attached to the top of a 75 m tower and meets the ground at a 65° angle. How long is the wire?



15. To find the distance from point A on the shore of a lake to point B on an island in the lake, surveyors locate point P with $m \angle PAB = 65$ and $m \angle APB = 25$. By measurement, PA = 352 m. Find AB.



16. A certain jet is capable of a steady 20° climb. How much altitude does the jet gain when it moves 1 km through the air? Answer to the nearest 50 m.



17. A 6 m ladder reaches higher up a wall when placed at a 70° angle than when placed at a 60° angle. How much higher, to the nearest tenth of a meter?

