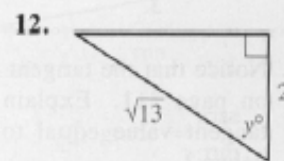
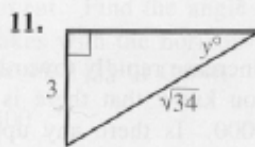
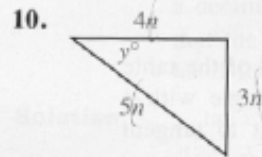
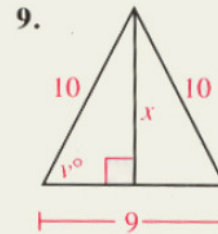
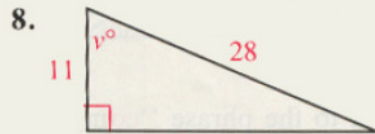
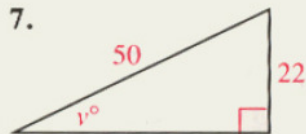
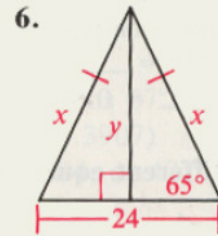
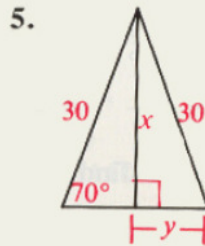
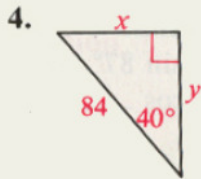
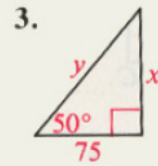
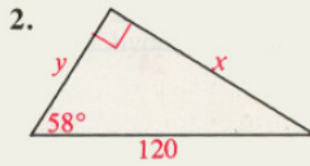
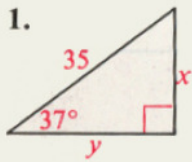
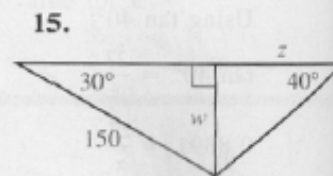
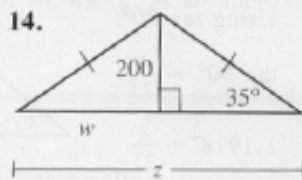
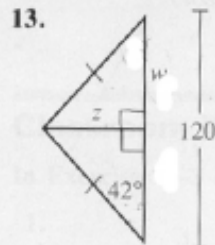


6.7 Special Triangle Ratios

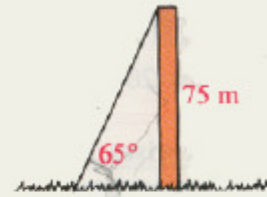
In Exercises 1–12 find the values of the variables.



Find w , then z , correct to the nearest integer.



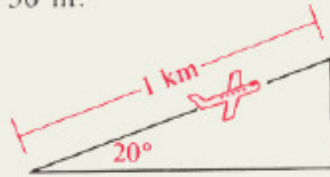
14. A guy wire is attached to the top of a 75 m tower and meets the ground at a 65° angle. How long is the wire?



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?

