The Pythagorean Theorem

Practice

Find each missing length. Round to the nearest tenth of a unit, if necessary.

1. legs: 3 ft and 4 ft
2. legs: 5 ft and 12 ft
3. leg: 7 m; hypotenuse: 14 m
4. legs: 17 ft and 6 ft
5. legs: 11 cm and 21 cm
6. leg: 15 m; hypotenuse: 20 m

3. The length of two sides of a right triangle are given. Find the length of the third side to the nearest tenth of a unit.

1. 3 m and
2. 4 m

19. A playground is 50 yd by 50 yd. Amy walked across the playground from one corner to the opposite corner. How far did she walk?

20. A 7 m ladder is mounted 10 ft above the ground on a tree truck. The bottom of the ladder is 40 ft from the wall of the building. How high off the ground is the top of the ladder?