

Name: _____

Date: _____

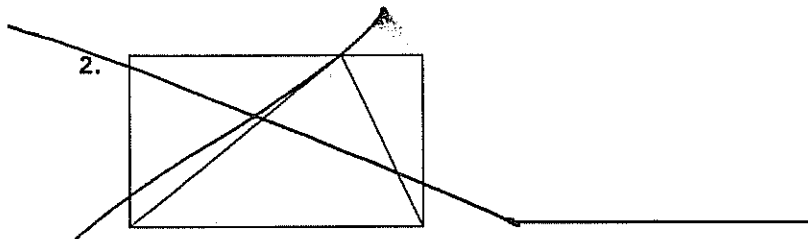
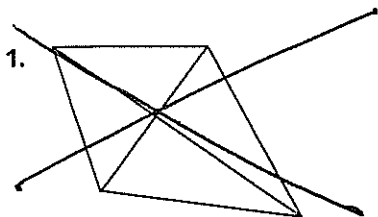
CHAPTER



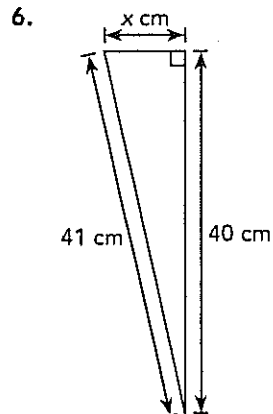
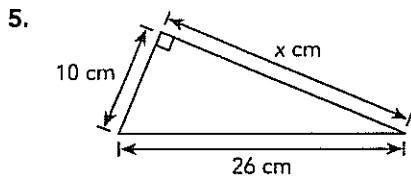
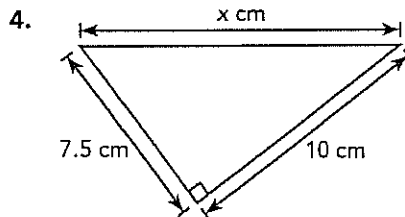
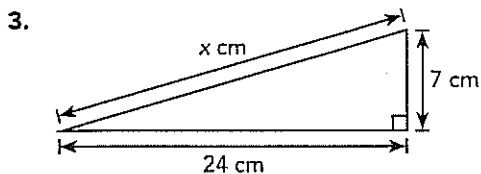
The Pythagorean Theorem

Lesson 7.1 Understanding the Pythagorean Theorem and Plane Figures

For each figure, shade two right triangles and label the hypotenuse of each triangle with an arrow.



Find the value of x .

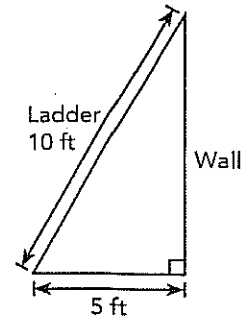


Name: _____

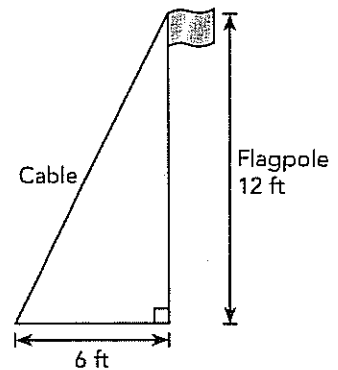
Date: _____

Solve. Show your work. Round your answer to the nearest tenth.

12. Alan placed a ladder against a wall. The bottom of the ladder was 5 feet away from the wall. Find the height of the wall.



13. One end of a cable is attached to the top of a flagpole and the other end is attached 6 feet away from the base of the pole. If the height of the flagpole is 12 feet, find the length of the cable.



14. An escalator runs from the first floor of a shopping mall to the second floor. The length of the escalator is 30 feet and the distance between the floors is 12 feet. Find the distance from the base of the escalator to the point on the first floor directly below the top of the escalator.

