

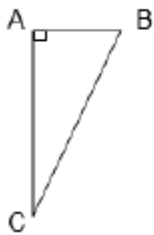
Name: _____

Date: _____

Pythagorean Theorem Review Sheet

1.)

Which segment represents the hypotenuse of the triangle below?



A. \overline{AB}

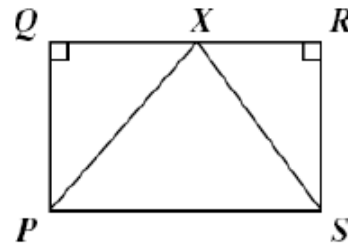
B. \overline{AC}

C. \overline{BC}

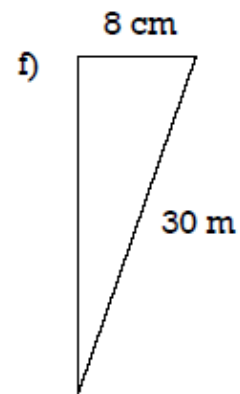
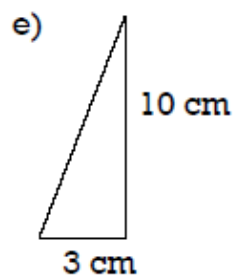
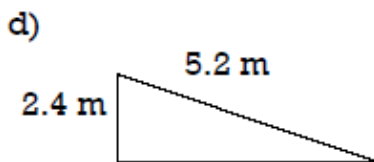
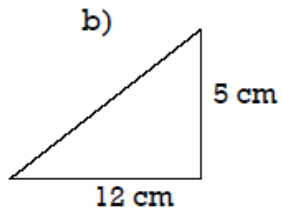
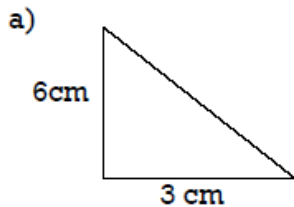
2.)

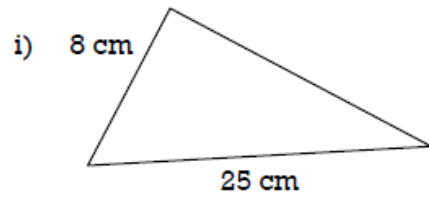
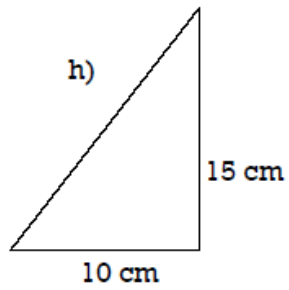
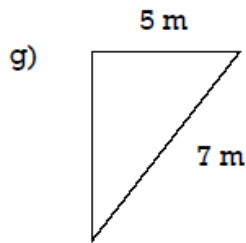
Three triangles are drawn in rectangle $PQRS$. Which of the following segments is a hypotenuse of one of these triangles?

- A. \overline{RS}
- B. \overline{RQ}
- C. \overline{XS}
- D. \overline{XQ}



3. For each question below, determine the length of the unknown side. Show all of your work.





5. Use the Pythagorean Theorem to prove whether the three sides given represent a right triangle.
- a.) 1, 2, 3
- b.) 15, 36, 39

For each word problem below, draw a diagram to help solve. Round your answer to the nearest hundredth where necessary.

6. A ladder is leaning up against a house. The foot of the ladder is 2.5 feet from the house. The ladder is 8 feet long. How far up the side of the house does it reach?

7. A rectangle is 6 feet long and 11 feet wide. What is the length of the diagonal of the rectangle?

8. John walks 10km north and then 15 km east. How far is he from his starting point?