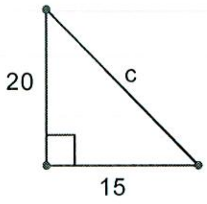
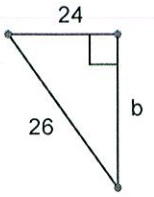
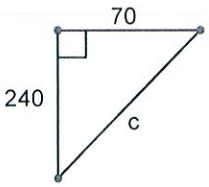
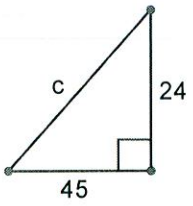
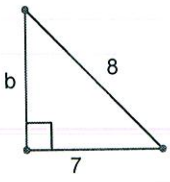
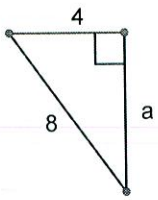
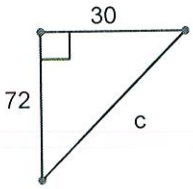
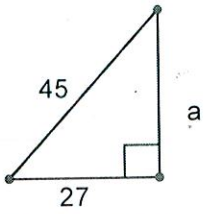
7.2A

Pythagorean Theorem

Name _____

Date _____

Write the Pythagorean Equation for each problem. Write the missing side in simplified radical form.

1. Equation: c = _____  	2. Equation: b = _____  	3. Equation: c = _____  	4. Equation: c = _____ 
5. Equation: b = _____  	6. Equation: a = _____  	7. Equation: c = _____  	8. Equation: a = _____ 

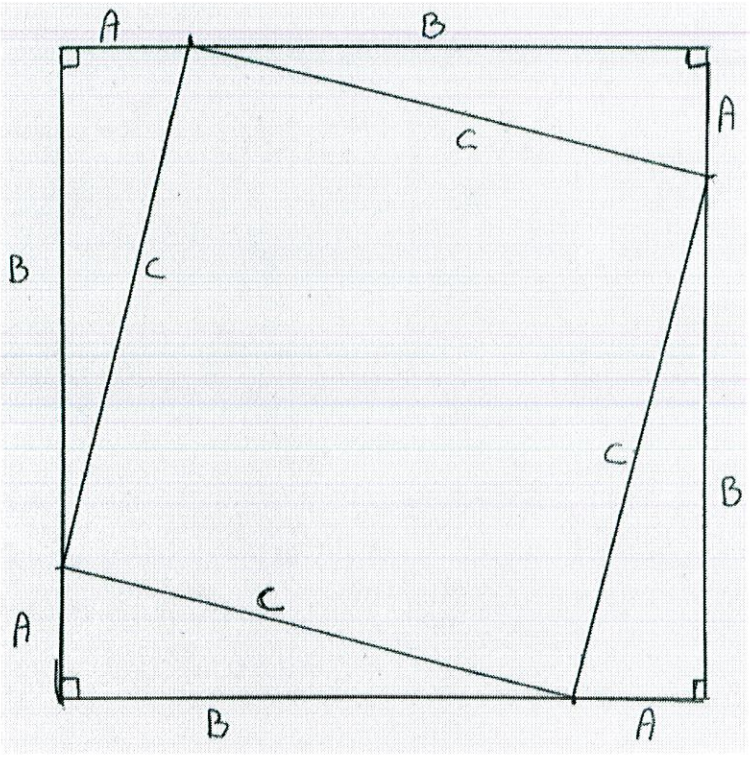
Use the converse of the Pythagorean theorem to determine if each triangle is acute, right, or obtuse. Show your work to justify your answer.

17. 11, 12, 16 _____	18. 6, 8, 9 _____	19. 45, 60, 75 _____

7.2 A

Proof of the Pythagorean Theorem

Name_____
Date _____



1. Find the area of the entire shape.

2. a) Find the area of the four right triangles and the rhombus.

b) How do you know that the rhombus is a square?

3. Prove the Pythagorean Theorem.