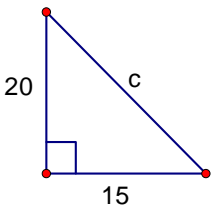
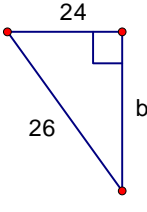
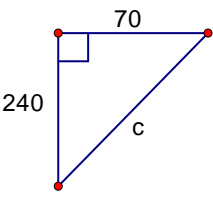
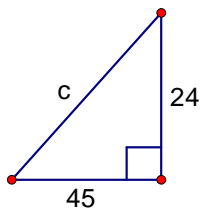
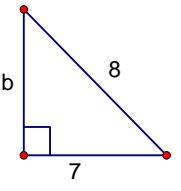
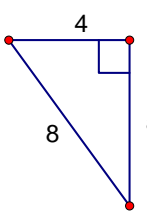
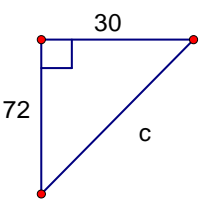
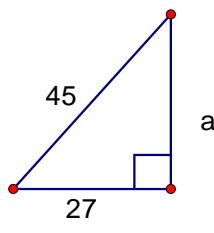


Geometry Worksheet 7.2 Worksheet
 Pythagorean Theorem

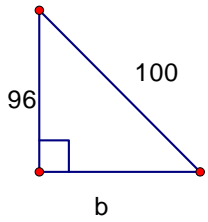
Name _____
 Per ____ Date _____

Write the Pythagorean Equation for each problem. Write the missing side in simplified radical form. Determine if the sides form a Pythagorean triple. If so, name the family.

<p>1. Equation: _____</p> <p>$c =$ _____ Triple? _____</p>  <p>Triple Family</p>	<p>2. Equation: _____</p> <p>$b =$ _____ Triple? _____</p>  <p>Triple Family</p>	<p>3. Equation: _____</p> <p>$c =$ _____ Triple? _____</p>  <p>Triple Family</p>	<p>4. Equation: _____</p> <p>$c =$ _____ Triple? _____</p>  <p>Triple Family</p>
<p>5. Equation: _____</p> <p>$b =$ _____ Triple? _____</p>  <p>Triple Family</p>	<p>6. Equation: _____</p> <p>$a =$ _____ Triple? _____</p>  <p>Triple Family</p>	<p>7. Equation: _____</p> <p>$c =$ _____ Triple? _____</p>  <p>Triple Family</p>	<p>8. Equation: _____</p> <p>$a =$ _____ Triple? _____</p>  <p>Triple Family</p>

9.
Equation:

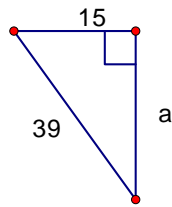
b = _____
Triple? _____



Triple Family

10.
Equation:

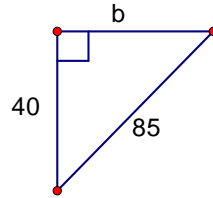
a = _____
Triple? _____



Triple Family

11.
Equation:

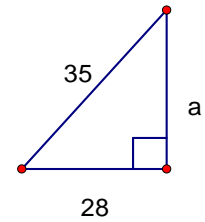
b = _____
Triple? _____



Triple Family

12.
Equation

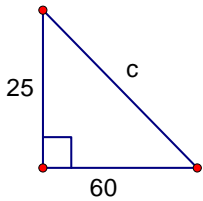
a = _____
Triple? _____



Triple Family

13.
Equation

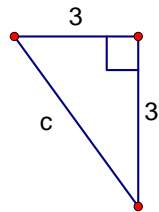
c = _____
Triple? _____



Triple Family

14.
Equation

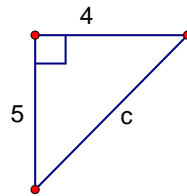
c = _____
Triple? _____



Triple Family

15.
Equation

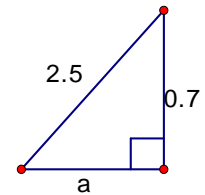
c = _____
Triple? _____



Triple Family

16.
Equation

a = _____
Triple? _____



Triple Family

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

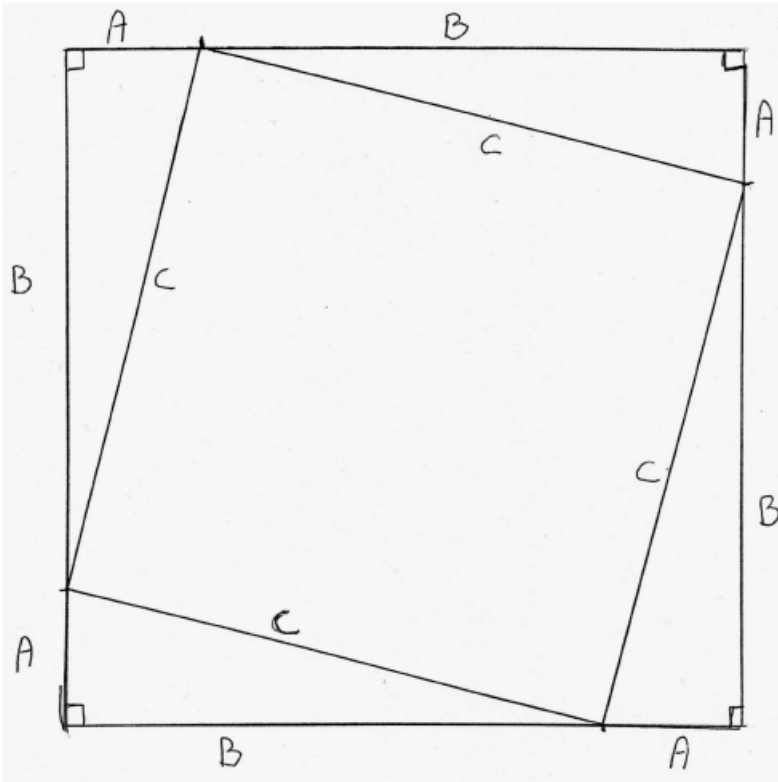
<p>17. 11, 12, 16</p> <p>_____</p>	<p>18. 6, 8, 9</p> <p>_____</p>	<p>19. 45, 60, 75</p> <p>_____</p>
<p>20. 11, 60, 61</p> <p>_____</p>	<p>21. 6, 7, 12</p> <p>_____</p>	<p>22. 5, 12, 13</p> <p>_____</p>

23. Multiply $(2x + 3)(x - 4)$

24. Multiply $(a + b)(a - b)$

25. Multiply $(a + b)(a - b)$

26. Multiply $(2x + 3y)(6x + y)$



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.