Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_\_ Period: \_\_\_\_\_Date: \_\_\_\_\_\_\_

**7.3B NOTES - The Pythagorean Theorem (FINDING A LEG)**

*Objective: Apply the Pythagorean Theorem to determine unknown distances on triangles (CCSS: 8.G.8)*

*HW: (7.3B) p. 304 #3 – 12 all. Do in Big Ideas Math. If you cannot, copy down problem. Show your work. Check your odd solutions*

 

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| IMPORTANT: In order to use the Pythagorean Theorem formula, the triangle must be a \_\_\_\_\_\_\_\_\_\_\_\_ triangle.  |

FOR ADDITIONAL EXAMPLES ON FINDING THE HYPOTENUSE OF A RIGHT TRIANGLE, Watch Tutorial Video: **Section 7.3, Example 1**

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| **WARM UP:**Find the length of the hypotenuse |

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| **EXAMPLE 3****Find the length of the missing side.** |

FOR ADDITIONAL EXAMPLES, watch Tutorial Video: **Section 7.3, Example 2;** then do the problems below.

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| 1. Find the missing length of the triangle.

 | 1. Find the missing length of the triangle

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| **Example 4:** Find the missing length of the figure.**8 in****10 in** |
| **Example 5:** Find the perimeter of the figure. |
| 1. Find the missing length of the figure.

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| 1. Find the missing length of the figure.

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