Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_

**7.3B The Pythagorean Theorem\_Classwork**

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

HW: (7.3B) p. 304 #3 – 12 (Solutions on p. A32) Copy down problem. Show your work. Check your solutions



|  |
| --- |
| **EXAMPLE 1: Find the length of the hypothenuse of the triangle** |
| **EXAMPLE 2: Find the length of the hypotenuse.** |

FOR ADDITIONAL EXAMPLES, Watch Tutorial Video: **Section 7.3, Example 1**

|  |  |
| --- | --- |
| 1. Find the length of the hypotenuse of the triangle. | 2. Find the length of the hypotenuse of the triangle. |

|  |
| --- |
| **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.

|  |  |
| --- | --- |
| 1. Find the missing length of the triangle.

 | 1. Find the missing length of the triangle.

 |

|  |
| --- |
| **Example 4:** Find the missing length of the figure.**8 in****10 in** |
| **Example 5:** Find the missing length of the figure.**x****10cm** **15cm 6cm** |

|  |  |
| --- | --- |
| 1. Find the missing length of the figure.

  | 1. Find the missing length of the figure.

 |

**Warm Up**

|  |  |  |
| --- | --- | --- |
| 1. Simplify $\left(\frac{3}{7}\right)^{2}=$ |  2. Simplify $\left(7\frac{2}{5}\right)^{2}$= |  3. Evaluate $ \left(\sqrt[3]{64}\right)^{3}-7^{2}=$  |

**CLASS SET. DO NOT WRITE ON. LEAVE FOR NEXT CLASS ☺**

**(7.3B) p. 304 #3 – 12**







**Solutions on back**

**HW QUESTIONS**



