**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

### U15 HWK #3 *The Converse of the Pythagorean Theorem and Finding the Ditance Between Two Points*

**Directions:** Determine whether the three side lengths form a right triangle. Write yes or no on the line provided. Show how you determined your answer.

|  |  |
| --- | --- |
| 1. 9, 12, 15 \_\_\_\_\_\_ | 1. 18, 36, 45 \_\_\_\_\_\_ |
| 1. 12, 37, 35 \_\_\_\_\_\_\_ | 1. 8, 15, 16 \_\_\_\_\_\_ |
| 1. , , 4 \_\_\_\_\_\_ | 1. 6.4, 12, 12.2 \_\_\_\_\_\_ |
| 1. 8.6, 14.7, 11.9 \_\_\_\_\_\_ | 1. 8, , 16 \_\_\_\_\_\_ |
| 1. 8, 8, \_\_\_\_\_\_ | 1. 7, 9, 11.4 \_\_\_\_\_ |

1. **Find, Fix, and Justify:** Nataani was asked to solve for the unknown side length in the triangle below. His work is shown below. He made a mistake when solving. Explain the mistake and then solve the problem correctly.

**Nataani’s Solution: Correct Solution:**

**Explain Mistake:**

### Finding Distance Between Two Points

**Directions:** Find the distance between the two points shown on each grid below. Leave your answers in simplest radical form.

|  |  |
| --- | --- |
|  |  |

1. Find the distance between the two points given below. Leave your answers in simplest radical form.