**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_\_\_\_\_\_\_**

**Midterm Review Warm Up 1**

**Section 1.3-1.4**

**Ex:** *Explain* how the two sentences below would differ.

1. 5 less than *x* This math sentence would be an expression whose operation is subtraction
2. 5 is less than *x* This math sentence would be an inequality because of the word “is”

**Ex:** Translate the above verbal phrases into the correct expression, equation or inequality.

1. 5 less than *x* *x –* 5
2. 5 is less than *x* 5 < *x*

**Section 11.2**

**Ex:** Can the following sides form a right triangle? Why or why not?

 9, 15, 12 See if the Pythagorean Theorem works:

 *a*² + *b*² = *c*²

 9² + 12² = 15²

 81 + 144 = 225

 225 = 225 yes because the Pythagorean Theorem works



**Ex:** Find the missing side of the right triangle.

 *a*² + *b*² = *c*²

 5² + *b*² = 7²

 25 + *b*² = 49

−25 −25

 *b*² = 24

 *b* = 4.9

**Section 11.4 (Acc. Only)**

**Ex:** Simplify: $\sqrt{\frac{24}{5}}$ $\frac{2\sqrt{30}}{5}$ **Ex:** Add: $\sqrt{40}-\sqrt{10}+\sqrt{90}$

 $2\sqrt{10}-\sqrt{10}+3\sqrt{10}$

 4$\sqrt{10}$