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

**Midterm Review Warm Up 3**

**Section 3.1 Section 3.4**

**Ex:** Solve **Ex:** Solve: 4(3*x* – 3) = 6(2*x* – 5)

\*Multiply by the reciprocal 12*x* – 12 = 12*x* – 30

−12*x* −12*x*

*x* = −56 −12 = −30

No Solution

**Ex:** Solve: 9(2*x* + 4) = 6(3*x* + 6) **Ex:** Solve: 4(2*x* + 5) = 10(3*x* + 2)

18*x* + 36 = 18*x* + 36 8*x* + 20 = 30*x* + 20

−18*x* −18*x* −8*x* −8*x*

36 = 36 20 = 12*x* + 20

Any number −20 −20

0 = 12*x*

12 12

0 = *x*

**Section 3.5-3.6 Section 3.7**

**Ex:** Solve the proportion: **Ex:** What percent of 28 is 7?

\*To solve a proportion, cross multiply to create an Use the percent proportion:

Equation

4(2*x* + 1) = 3(3*x* + 5) 700 = 28*x*

8*x +* 4 = 9*x* + 15 28 28

−8*x*  −8*x* 25 = *x*

4 = *x* + 15

−15 −15

−11 = *x*

**Section 3.8**

**Ex:** Rewrite the equation in function form:

2*x* – 3*y* = 8

−2*x* −2*x*

−3*y* = 8 – 2*x*

−3 −3