Bellwork Tuesday, March 18, 2014

Without graphing tell if each system of equations has One, None, or Many Solutions.

1. $y = 2x - 7$
   $6x + 12y = 24$

   One

   $\frac{12y}{12} = \frac{-6x+24}{12}$

   $y = -.5x + 2$

   Different Slopes

2. $y = 4x - 3$
   $8x - 2y = 6$

   $\frac{6 - 8x}{-2} = \frac{-2y}{-2}$

   -2

   many Solut.

   Same Line

   $y = -3 + 4x$

Solve each system of equations using substitution. Give answer as an ordered pair.

1. y = 2x - 11 y = -6x - 38

   $y = -17.75$

   $2x - 11 = -6x - 38$

   $+6x \quad +6x$

   $8x - 11 = -38$

   $+11 \quad +11$

   $\frac{8x}{8} = \frac{-27}{8}$

   $x = -3.375$

   $(-3.375, -17.75)$

2. c = -3d + 8 4d - 2c = -26

   Solution on next screen

$(11, -1)$

2. c = -3d + 8 4d - 2c = -26

$4d - 2(-3d + 8)$

$4d + 6d - 16 = -26$

$10d - 16 = -26$

$+16 \quad +16$

$\frac{10d}{10} = \frac{10}{10}$

$d = 1$

$c = 11$