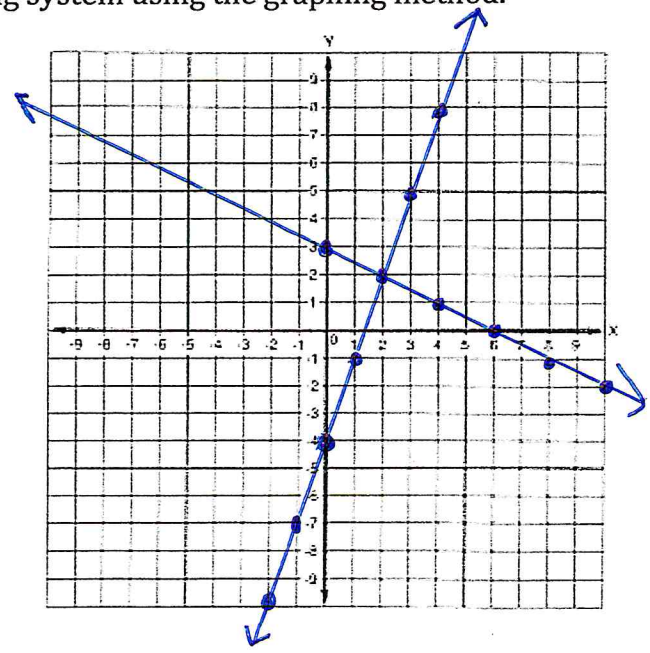
Name: Key Hour: _____ Date: _____

Quick Solving Systems of Equations Review

1) Solve the following system using the graphing method.

$y=3x-4$

$y=-\frac{1}{2}x+3$



(2, 2)

2) Solve using the substitution method.

$y = 5x - 7$

$-3x - 2y = -12$

$-3x - 2(5x-7) = -12$

$-3x - 10x + 14 = -12$

$-13x + 14 = -12$

$-14 \quad -14$

$\frac{-13x}{-13} = \frac{-26}{-13}$

$x = 2$

$y = 5(2) - 7$

$y = 10 - 7$

$y = 3$

(2, 3)

3) Solve using the elimination method.

$5(3x - 2y = 2) \Rightarrow 15x - 10y = 10$

$-3(5x - 5y = 10) \quad -15x + 15y = -30$

$\frac{5y}{5} = \frac{-20}{5}$

$y = -4$

$3x - 2(-4) = 2$

$3x + 8 = 2$

$-8 \quad -8$

$\frac{3x}{3} = \frac{-6}{3}$

$x = -2$

(-2, -4)