ALG1

February 27, 2012

Any homework to correct?

11) $3+2x+y=0$

$\quad -y \quad -y$

$2x+3=-y$

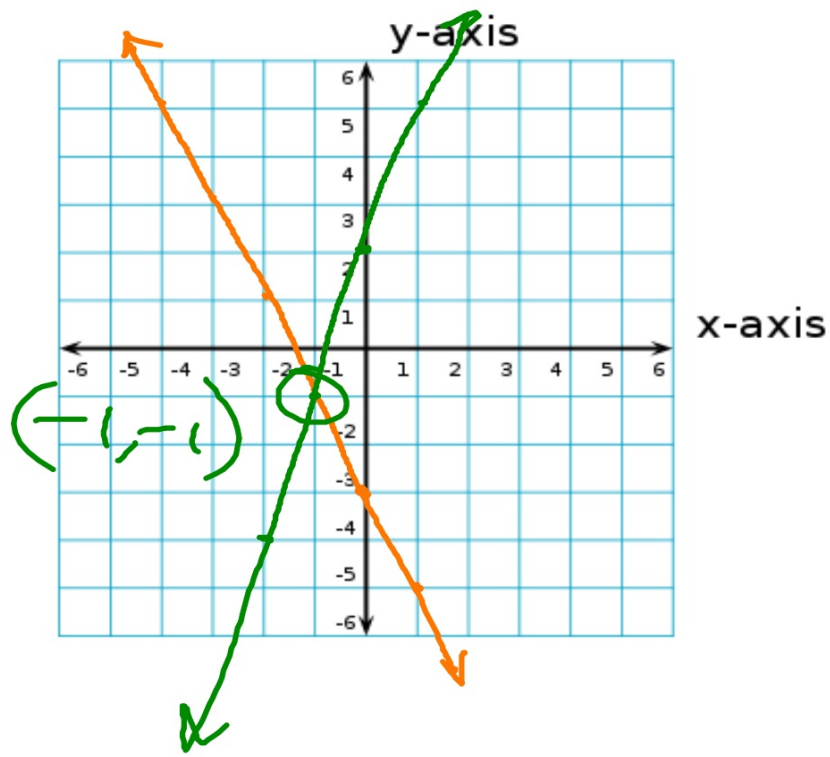
$\frac{-2x}{1}-3=y$

$9x=3y-6$

$+6 \qquad +6$

$\frac{9x+6}{3}=\frac{3y}{3}$

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



2/27 - Solving Systems of Equations using Substitution

$$y = 2x + 2$$

$$6x + 8y = -6$$

$$6x + 8(2x+2) = -6$$

$$6x + 16x + 16 = -6$$

$$22x + 16 = -6$$

$$-16 \quad -16$$

$$\frac{22x}{22} = \frac{-22}{22}$$

$$x = -1$$

$$y = 2(-1) + 2$$

$$y = -2 + 2$$

$$y = 0$$

$$\boxed{(-1, 0)}$$

$$y = 2x - 6$$

$$7x - 7y = 7$$

$$7x - 7(2x - 6) = 7$$

$$7x - 14x + 42 = 7$$

$$-7x + 42 = 7$$

$$-42 \quad -42$$

$$\frac{-7x}{-7} = \frac{-35}{-7}$$

$$x = 5$$

$$y = 2(5) - 6$$

$$y = 10 - 6$$

$$y = 4$$

$$(5, 4)$$

$$y = -2x - 17$$

$$-2x - 5y = 21$$

$$-2x - 5(-2x - 17) = 21$$

$$-2x + 10x + 85 = 21$$

$$8x + 85 = 21$$

$$-85 \quad -85$$

$$\frac{8x}{8} = \frac{-64}{8}$$

$$x = -8$$

$$y = -2(-8) - 17$$

$$y = 16 - 17$$

$$y = -1$$

$$(-8, -1)$$

$$-x + 6y = 23$$

$$y = -3x + 7$$

$$-x + 6(-3x+7) = 23$$

$$-x - 18x + 42 = 23$$

$$-19x + 42 = 23$$

$$-42 \quad -42$$

$$\frac{-19x}{-19} = \frac{-19}{-19}$$

$$x = 1$$

$$y = -3(1) + 7$$

$$y = -3 + 7$$

$$y = 4$$

$$(1, 4)$$

Homework

Buff Systems WS5
#1-10 all

Due Tuesday