

$$(1) \quad 4[(8(x-1)+7)] - [2(4x-1)+7]$$

$$4((8x-8+7) - (8x-2+7))$$

$$4(8x-1 - 8x-5)$$

$$4(-6) = \boxed{-24}$$

$$(2) \quad \frac{-3}{2} \cdot \frac{4}{-9} = \boxed{\frac{4}{3}}$$

$$(3) \quad -2x + 2(-2x-3) = -10 - 2x$$

$$-2x + -4x - 6 = -10 - 2x$$

$$-6x - 6 = -10 - 2x$$

$$4 = 4x$$

$$\boxed{1 = x}$$

$$-2(1) + 2(-2(1)-3) = -10 - 2(1)$$

$$-2 + -10 = -12 \quad \checkmark$$

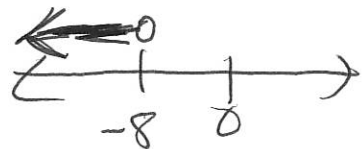
$$(4) \quad -3x - (2x+8) > 6 - (4x+6)$$

$$-3x - 2x - 8 > 6 - 4x - 6$$

$$-5x - 8 > -4x$$

$$-8 > x$$

$$\text{or } \boxed{x < -8}$$



m

$$(5) (-4, 0)(3, 8) \quad \frac{8-0}{3-(-4)} = \frac{8}{7}$$

$$y-0 = \frac{8}{7}(x+4) \quad \text{PT Slope}$$

or, using the other point (3, 8)

$$y-8 = \frac{8}{7}(x-3)$$

Slope intercept

$$y-8 = \frac{8}{7}x - \frac{24}{7}$$

+8 +8

$$-\frac{24}{7} + \frac{56}{7}$$

$$y = \frac{8}{7}x + \frac{32}{7}$$

$$\frac{32}{7}$$

std form

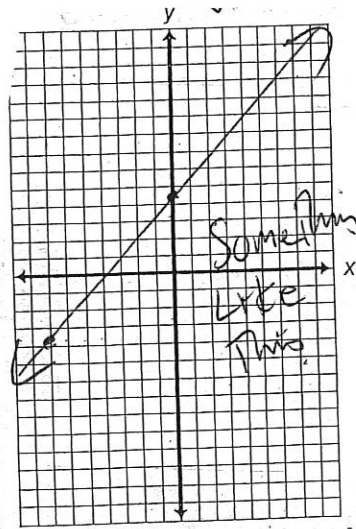
$$7y = 8x + 32$$

Subtract 7y
Subtract 32

$$8x - 7y = -32$$

From
Both
sides.

To graph it $\frac{32}{7} = 4\frac{4}{7}$



~~$$x = \frac{7}{8}$$~~



6

$$A = \frac{4}{5}bh$$

$$\frac{A}{\frac{4}{5}b}$$

$$\text{or } \frac{5A}{4b}$$

7

$$-3.57(5.56) + 21$$

$$\begin{array}{r} 23 \quad 43 \\ 3.57 \end{array}$$

$$\times 5.56$$

$$2142$$

$$17850$$

$$178500$$

$$\hline -198492$$

$$+ 210$$

$$\begin{array}{r} 0999 \\ 21,0000 \end{array}$$

$$- 19,8492$$

$$\hline \boxed{1,1508}$$

8

$$3x + y = -8$$

$$2x + 3y = 4$$

$$y = -3x - 8$$

$$4 = -3(-4) - 8$$

$$4 = 12 - 8 \checkmark$$

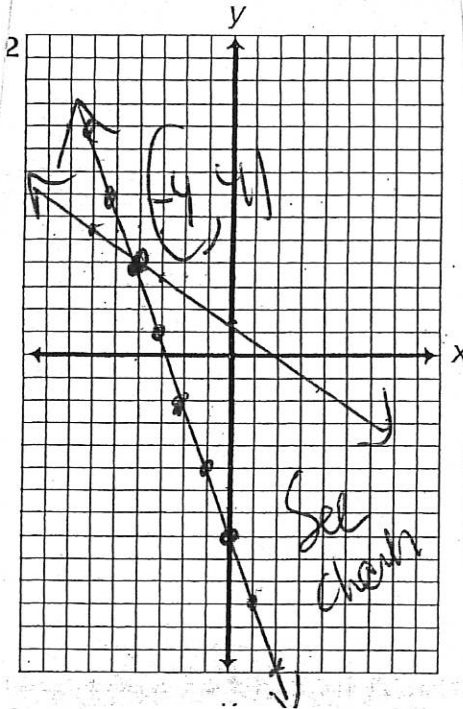
$$3y = -2x + 4$$

$$y = -\frac{2}{3}x + \frac{4}{3}$$

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

$$12 = 8 + 4 \checkmark$$

(-4, 4)



$$(9) \quad y = 2x + 4$$

$$3x + y = 29$$

$$y = 2(5) + 4 \\ = 10 + 4 \rightarrow 14$$

$$(5, 14)$$

ck.

$$3(5) + 14 = 29$$

$$15 + 14 = 29 \checkmark$$

$$3x + (2x + 4) = 29$$

$$3x + 2x + 4 = 29$$

$$5x + 4 = 29$$

$$5x = 25$$

$$x = 5$$

(10)

an example of same slope
 $y = 2x + 3$ must have

$$y = 2x - 5$$

$$2x - y = -3$$

$$2x - y = 5$$

