

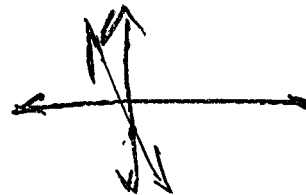
Algebra I

Weds. 12-5-12

Class Notes

Homework review:

(15) $m = -6$ $y_{\text{int}} = -3$
(b)



(17) $m = -\frac{4}{5}$ $y_{\text{int}} = 6$



(19) $m = 5$ $b = -9$ $y = 5x - 9$

(21) $m = -\frac{1}{2}$ $(6, 4)$ is on line
x, y

$$y = mx + b$$

$$4 = -\frac{1}{2} \cdot 6 + b$$

$$4 = -3 + b$$

$$+3 \quad +3$$

$$7 = b$$

$$y = -\frac{1}{2}x + 7$$



(23) $-\frac{1}{2}x + y = 4$ S-I Form
 $+\frac{1}{2}x$ $+\frac{1}{2}x$ $y = mx + b$

$$y = \frac{1}{2}x + 4$$

(25) $2x + y = 8$
 $-2x$ $-2x$

$$y = -2x + 8$$

(27)

Games Rented	1	2	3
MONTHLY COST \$	14	18	22

IV $\rightarrow$

data $\rightarrow$

$(1, 14), (2, 18), (3, 22)$
 $x, y \quad x, y \quad x, y$

WS

$$\textcircled{17} \quad \frac{8}{16} + \frac{6x}{16} = \frac{16y}{16} \quad \downarrow$$

$$\frac{1}{2} + \frac{3x}{8} = y \quad \therefore \boxed{y = \frac{3}{8}x + \frac{1}{2}}$$

$$\textcircled{7} \quad m = -\frac{4}{5} \quad b = 1 \quad \boxed{y = -\frac{4}{5}x + 1}$$

$$\textcircled{18} \quad \begin{array}{r} \downarrow \\ -4y - 6x = -20 \\ +6x \end{array}$$

$$\frac{-4y}{-4} = \frac{6x - 20}{-4}$$

$$\boxed{y = -\frac{3}{2}x + 5}$$

$$\textcircled{19} \quad 0 = 20 - 9x - 5y$$

$$\frac{5y}{5} = \frac{20 - 9x}{5}$$

$$\boxed{y = -\frac{9}{5}x + 4}$$

$$\textcircled{20} \quad \frac{-5x}{2} - \frac{10}{2} = \frac{2y}{2}$$

$$y = -\frac{5}{2}x - 5$$

$$\textcircled{29} \quad (-2, -2), (0, 3) \quad y = mx + b$$

$\swarrow \theta$
 $\nwarrow \theta$
 x, y

$$\frac{3+2}{0+2} = \frac{5}{2} = m \quad y = \frac{5}{2}x + 3$$

$$\textcircled{EX} \quad (-3, -7), (5, 6) \quad y = mx + b$$

$\swarrow \theta$
 $\nwarrow \theta$
 x, y

$$\frac{6+7}{5-3} = \frac{13}{2} = m$$

$$y = mx + b$$

$$6 = \frac{13}{2} \cdot 5 + b$$

$$6 = \frac{65}{2} + b$$

$$-\frac{65}{2}$$

$$-\frac{59}{2} = b$$

$$y = \frac{13}{2}x - \frac{59}{2}$$

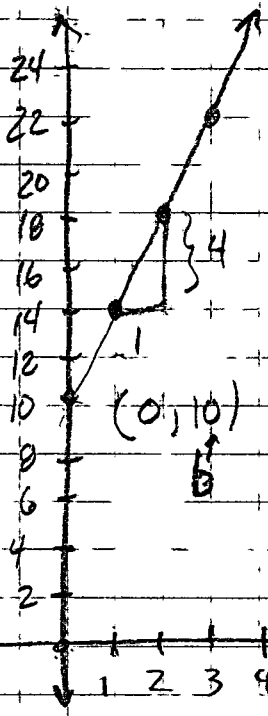
$$\frac{6}{1} = \frac{12}{2}$$

$$-\frac{65}{2}$$

(27)

x	y
1	14
2	18
3	22

COST
(\$)



$C = \text{cost}$
 $G = \text{Games}$

$$y = 4x + 10$$

$$C = 4G + 10$$

Number of Games Rented