

Pg 20... 5-33 (eoo), 35, 37, 39,
45, 49, 59, 63-65

5. $m = \frac{2+4}{5-3} = \frac{6}{2} = 3$

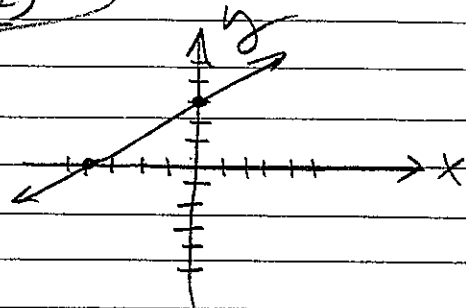
9. $m = \frac{\frac{1}{6} - \frac{2}{3}}{-\frac{3}{4} + \frac{1}{2}} = \frac{\frac{1}{6} - \frac{4}{6}}{-\frac{3}{4} + \frac{2}{4}} = \frac{-\frac{3}{6}}{-\frac{1}{4}} = \frac{+\frac{1}{2}}{+\frac{1}{4}} \cdot 4 = 2$

13. $y = 2$

$(1, 2) (2, 2) (3, 2)$

17. $m = 3/4 \quad b = 3$

$y = 3/4x + 3$

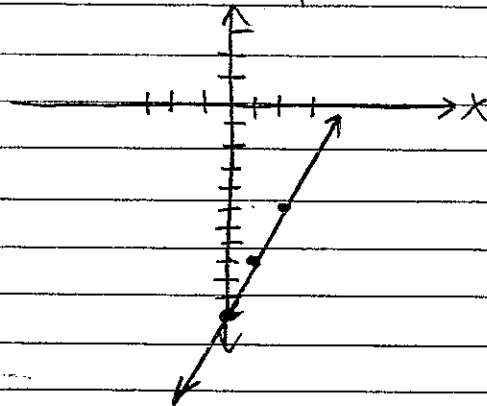


21. $m = 3 \quad (3, -2)$

$y + 2 = 3(x - 3)$

$y + 2 = 3x - 9$

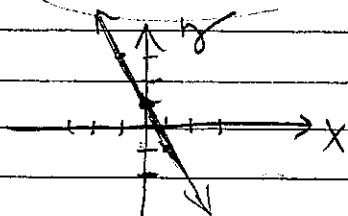
$y = 3x - 11$



25. $m = 4$

y-int: $(0, -3)$

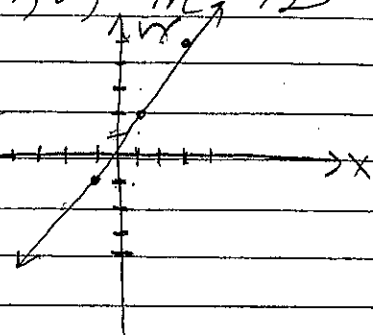
29. $m = \text{und none}$



33.

$y = -2x + 1$

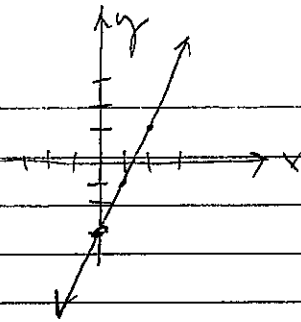
35. $(1, 2) \quad m = 3/2$



$$37. 2x - y - 3 = 0$$

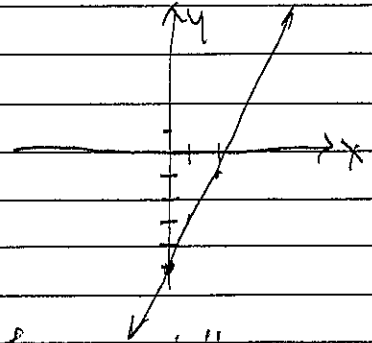
$$-y = -2x + 3$$

$$y = 2x - 3$$



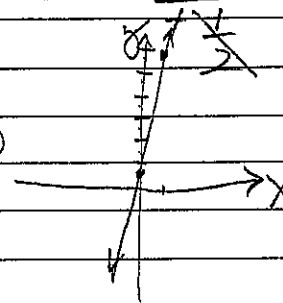
$$39. m = \frac{-5 - 3}{0 - 4} = \frac{-8}{-4} = 2$$

$$y = 2x - 5$$



$$45. m = \frac{\frac{3}{4} - \frac{7}{2}}{0 - \frac{1}{2}} = \frac{\frac{3}{4} - \frac{14}{4}}{-\frac{1}{2}} = \frac{-\frac{11}{4}}{-\frac{1}{2}} = \frac{11}{4} \cdot 2 = \frac{11}{2}$$

$$y = \frac{11}{2}x + \frac{3}{4}$$



$$49. m = \frac{3 - 0}{0 - 2} = \frac{-3}{2}$$

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

$$2y = -3x + 6$$

$$3x + 2y - 6 = 0$$

$$59. a) \parallel \quad 4x - 2y = 3$$

$$-2y = -4x + 3 \quad m = 2$$

$$\parallel \quad m = 2$$

$$(2, 1)$$

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

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

$$y - 1 = 2x - 4$$

$$-2x + y + 3 = 0$$

$$2x - y - 3 = 0$$

$$b) \perp \quad m = -\frac{1}{2}$$

$$y - 1 = -\frac{1}{2}(x - 2)$$

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

$$\frac{1}{2}x + y - 2 = 0$$

$$x + 2y - 4 = 0$$

63. put the (x, y) in the
wrong spots of pt-slope
Should be

$$y - 4 = -\frac{5}{2}(x + 1)$$

64. $\perp \rightarrow m = \frac{4}{3}$

65. (t, V) $t = 0 \rightarrow 2010$

$t \rightarrow 2015$ $t = 5 - V = 1850$

$(5, 1850)$

$$\text{Rate} = \frac{\$}{\text{yr}} = \frac{V}{t} = \frac{y}{x}$$

$$m = 250$$

slope

$$y - 1850 = 250(x - 5)$$

$$y - 1850 = 250x - 1250$$

$$y = 250x + 600$$