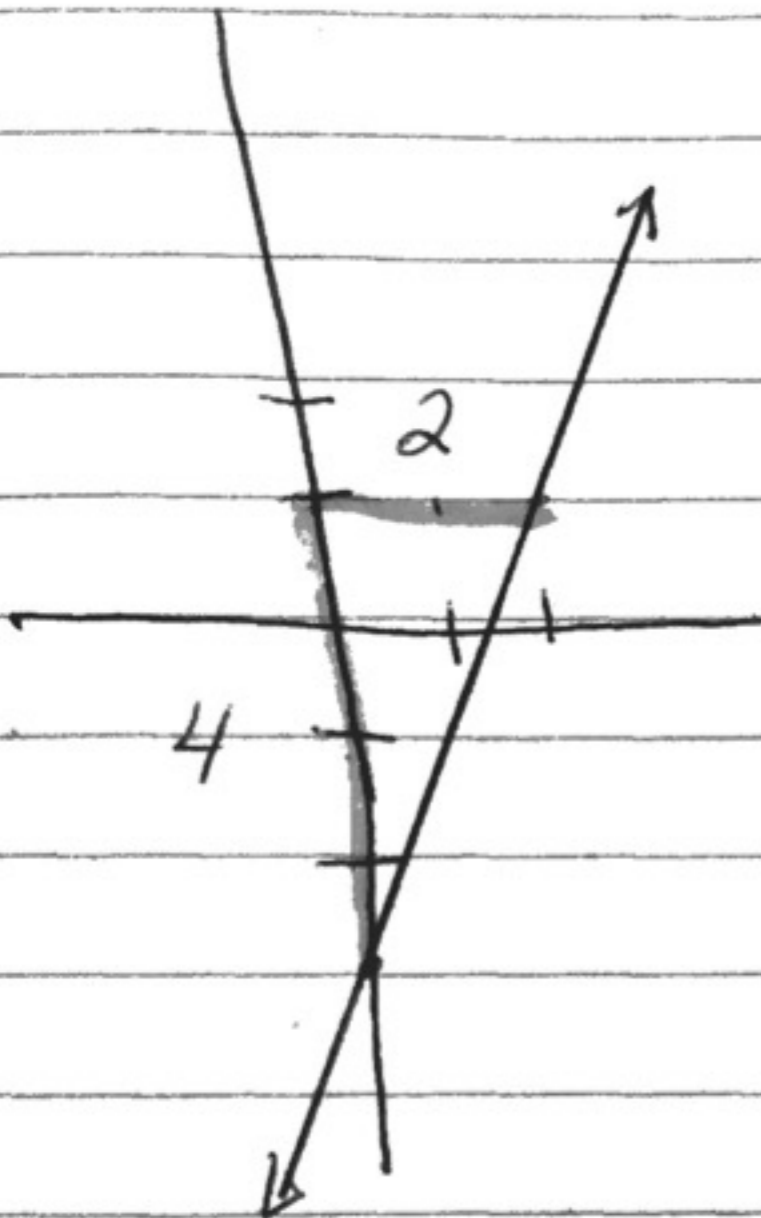


Pg 310

23, 25, 27, 29, 31, 33, 35, 51, 53
55, 57, 60, 61, 63, 65, 67
72-74

23



$$\text{slope } \frac{\text{rise } +4}{\text{run } 2} = 2$$

positive slope

y intercept -3

$$y = mx + b$$

$$y = 2x - 3$$

25

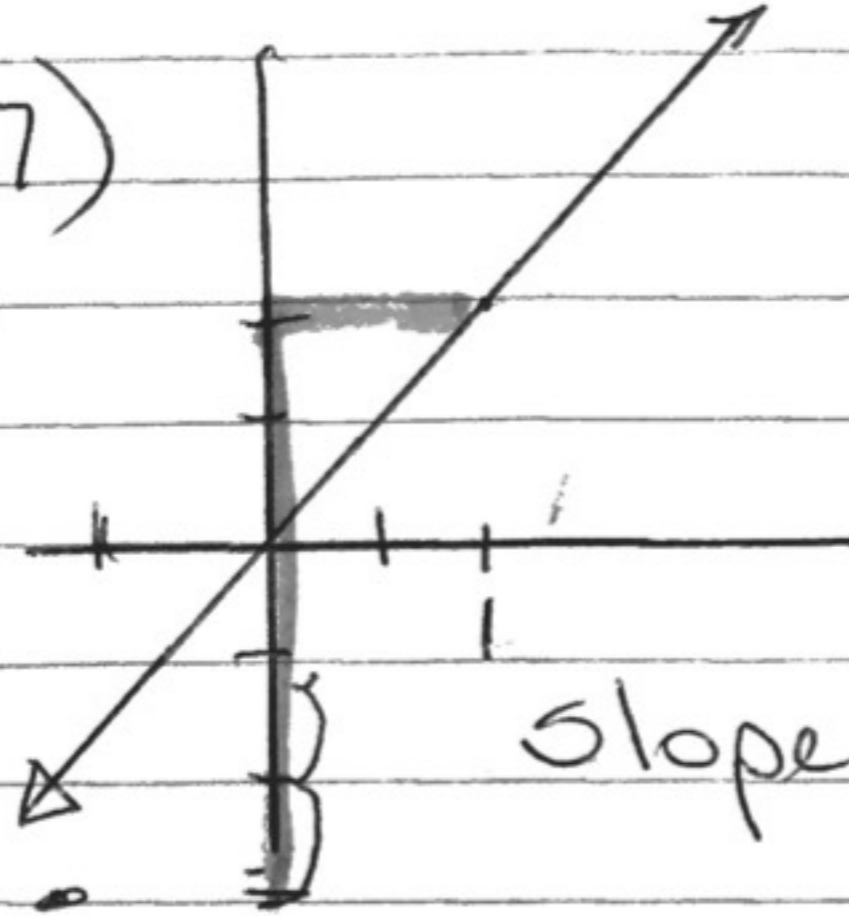


$$\text{slope } \frac{-4}{2} = -2$$

y intercept = 4

$$y = -2x + 4$$

27)



$$\text{slope } \frac{\text{rise } 5}{\text{run } 2}$$

$$y = \frac{1}{2}$$

$$y = \frac{5}{2}x + \frac{1}{2}$$

29 (-2, 4) and (3, -1)

1) slope

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 4}{3 - (-2)} = \frac{-5}{5} = -1$$

2) find b

$$y = mx + b$$

$$-1 = -1(3) + b$$

$$-1 = -3 + b$$

$$2 = b$$

3) substitute

$$y = mx + b$$

$$y = -x + 2$$

31 (-2, -1) and (4, 2)

1) slope

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-1)}{4 - (-2)} = \frac{2+1}{4+2} = \frac{3}{6} = \frac{1}{2} \text{ slope}$$

2) find b

$$y = mx + b$$

$$2 = \frac{1}{2}(4) + b$$

$$2 = 2 + b$$

$$0 = b$$

3) substitute

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

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

33 (-6, 5) and (1, 0)

1) slope

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{0 - 5}{1 - (-6)} = \frac{-5}{1+6} = \frac{-5}{7}$$

2) find b

$$y = mx + b$$

$$y = \frac{-5}{7}x + b$$

$$0 = \frac{-5}{7}x + b$$

$$\frac{5}{7} = b$$

$$y = \frac{-5}{7}x + \frac{5}{7}$$

35 (-2, 6.9) and (-4, 4.6)

$$\frac{y_2 - y_1}{x_2 - x_1} = \frac{4.6 - 6.9}{-4 - (-2)}$$

$$= \frac{-2.3}{-2} = 1.15$$

2) find b

$$y = mx + b$$

$$-4 = 1.15(-2) + b$$

$$-4 = -2.3 + b$$

$$-5.29 = -5.29$$

$$-9.29 = b$$

3) substitute

$$y = mx + b$$

$$y = 1.15x - 9.29$$

$$51. y = -2 = -3x$$

$$+2 = +2$$

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

Slope y-inter

° 35/hr repair
 ° 50 diagnostic

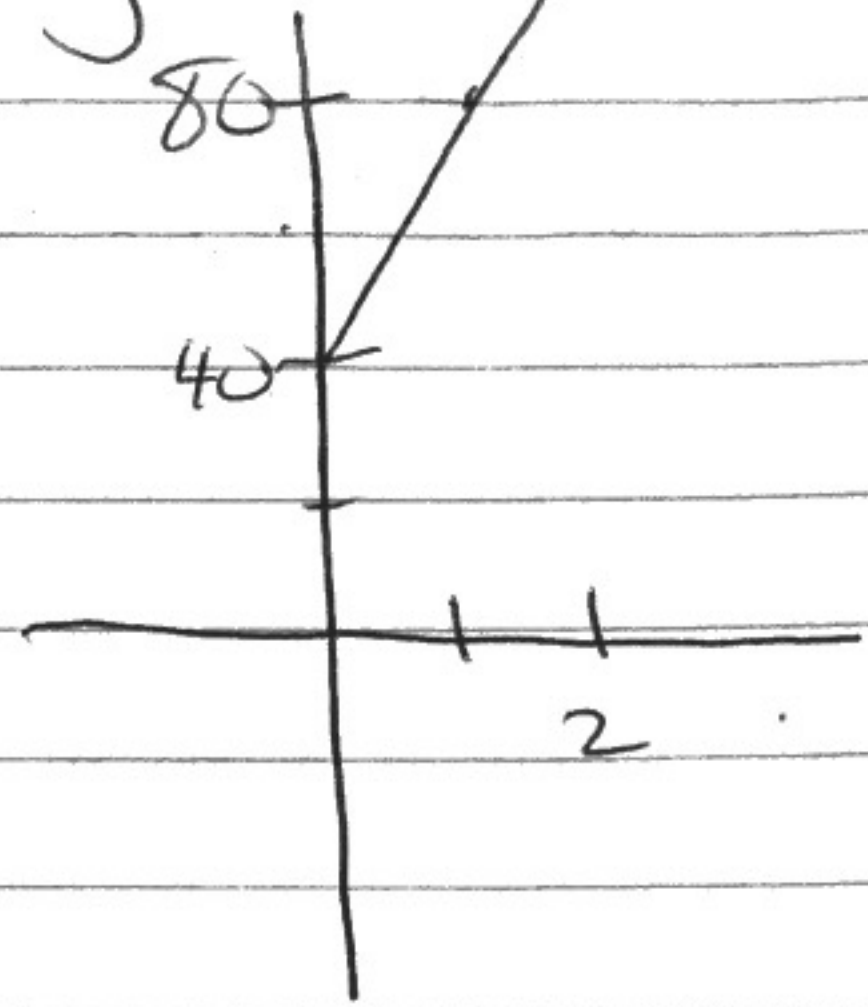
$$53. y - 9x = \frac{1}{2}$$

$$+9x = +9x$$

$$y = 9x + \frac{1}{2}$$

slope yintercept

$$61. y = 35x + 50$$



$$55. -2y = 6(5 - 3x)$$

$$\frac{-2y}{-2} = \frac{30 - 18x}{-2}$$

$$y = -15 + 9x$$

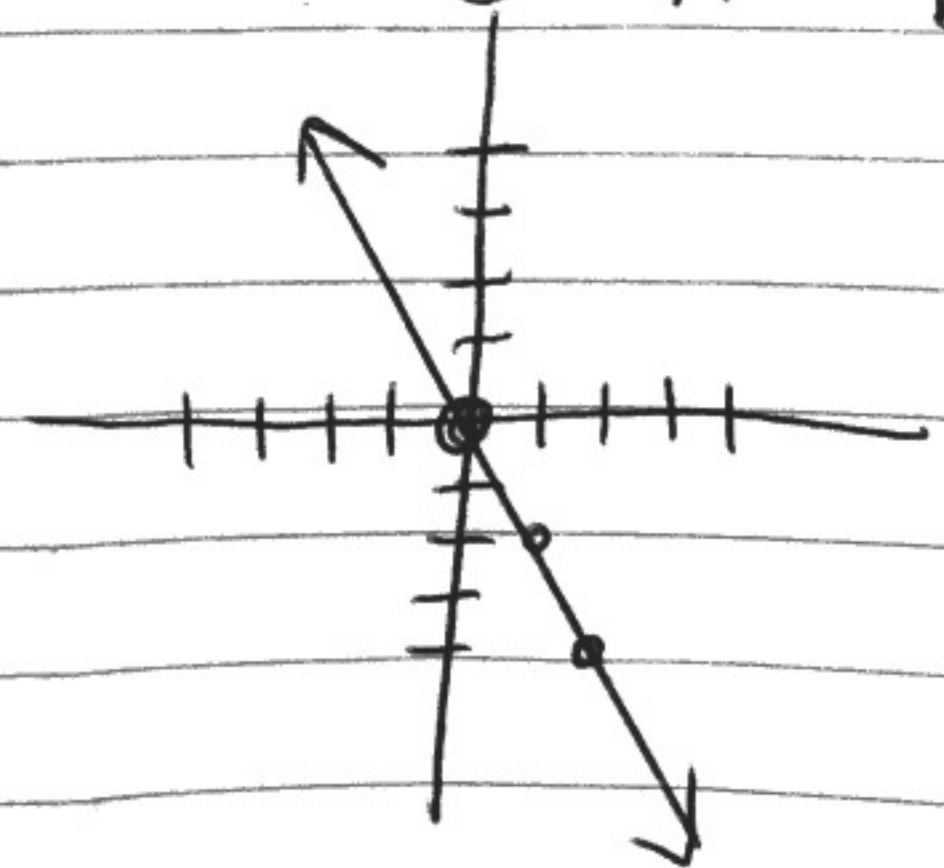
$$y = 9x - 15$$

slope yintercept

$$63. 2y + 4x = 0$$

$$\begin{array}{r|l} -4x & -4x \\ \hline 2y & = \frac{-4x}{2} \end{array}$$

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



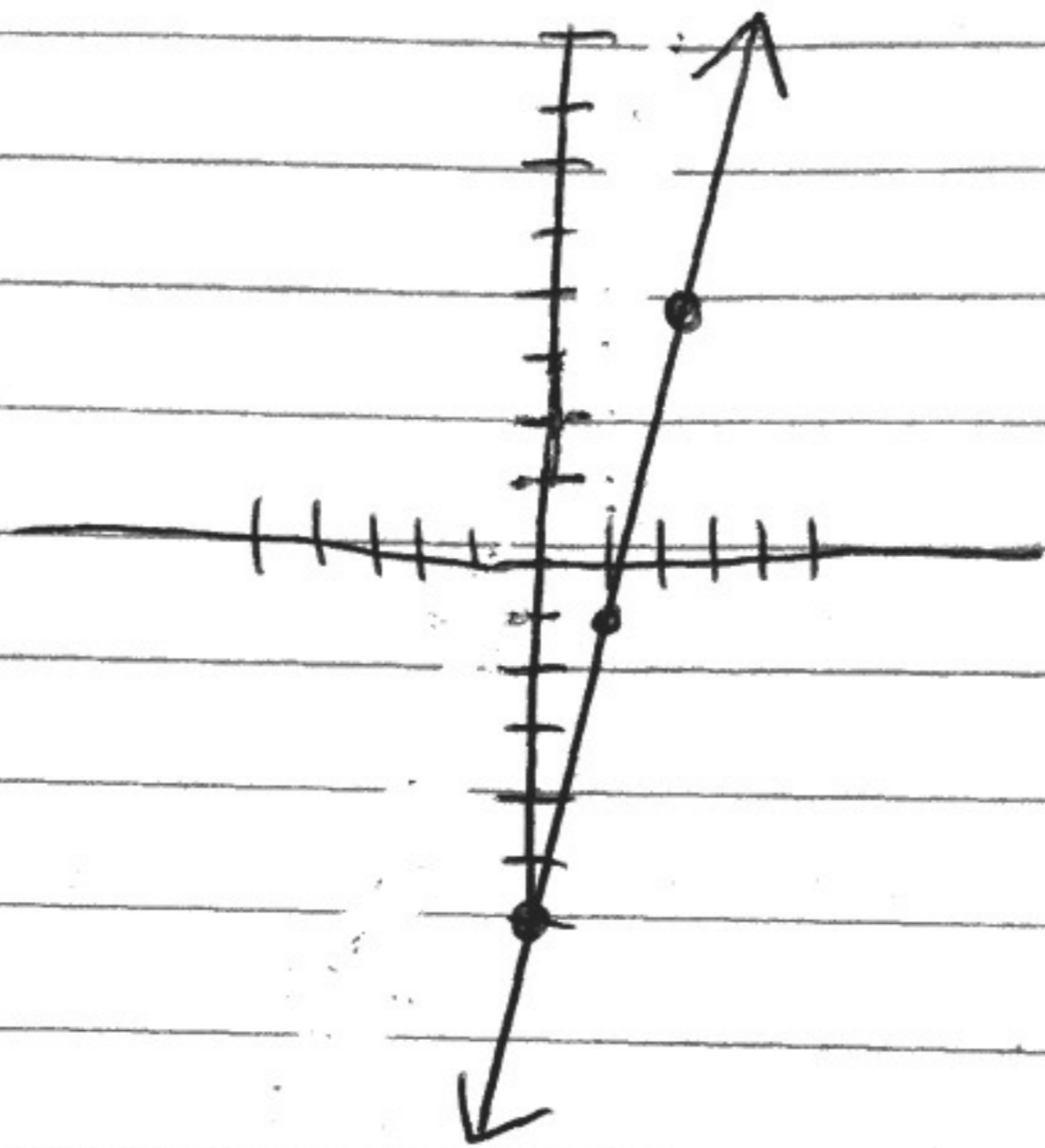
$$57. y = (2 - a)x + a$$

$$\text{slope} = 2 - a$$

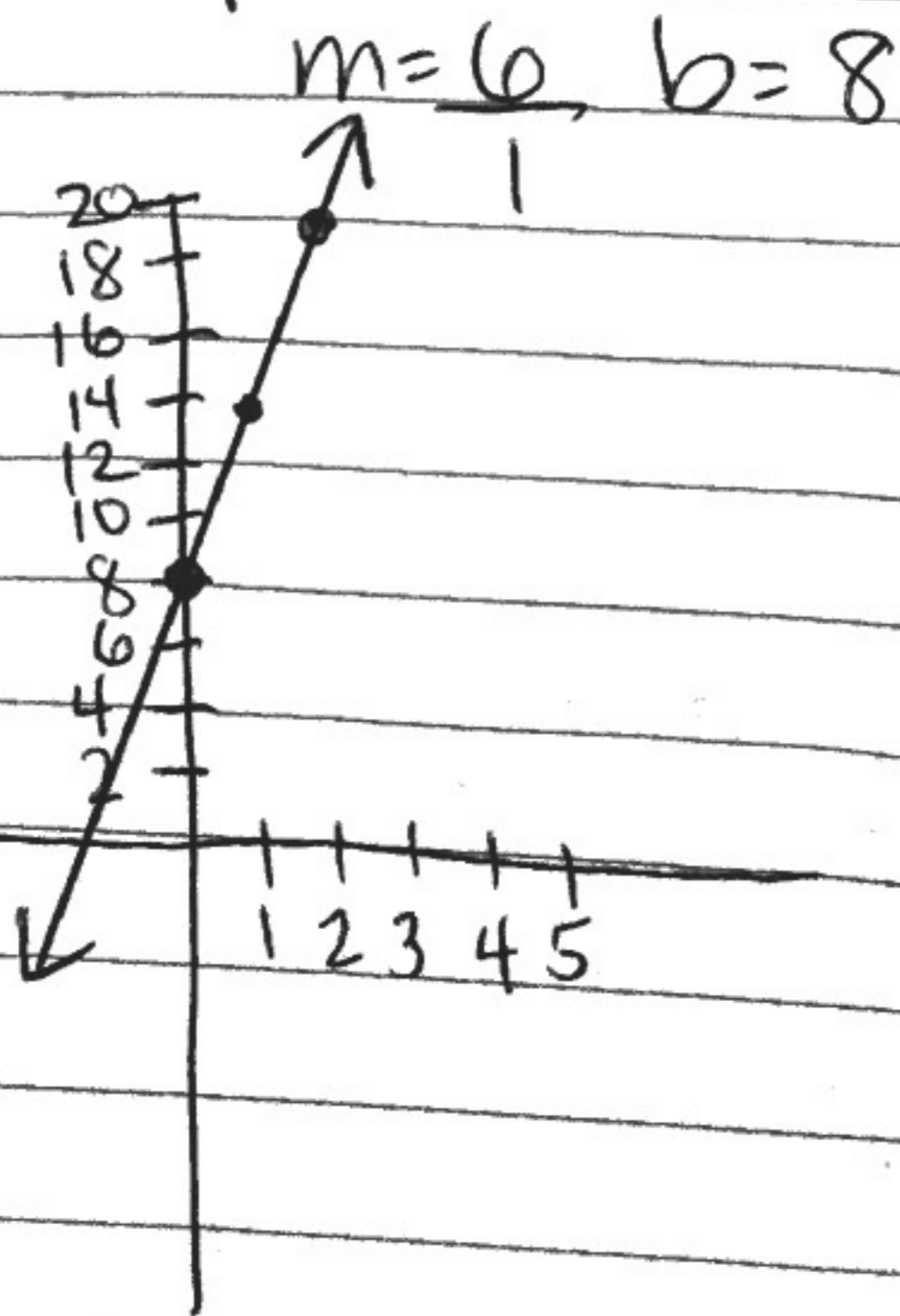
$$\text{yintercept} = a$$

60 The student used
 the slope as the
 y intercept
 and the y intercept
 as the slope

$$65. \begin{array}{r|l} y+2 & = 5x-4 \\ -2 & \quad -2 \\ \hline y & = 5x-6 \end{array} \quad \begin{array}{l} m=5 \text{ up} \\ \text{1 right} \\ b=2 \end{array}$$



$$67. \begin{array}{r|l} -2(3x+4) + y & = 0 \\ -6x-8+y & = 0 \\ +6x+8 & \quad +6x+8 \\ \hline y & = 6x+8 \end{array}$$



$$72. y = 2ax + 4 \quad m = -1$$

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

$$y = -x + 4$$

$$a = -\frac{1}{2}$$

$$73. y = \frac{-1}{2}ax - 5 \quad m = \frac{5}{2}$$

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

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

$$a = -5$$

$$74. y = \frac{3}{4}ax + 3 \quad m = \frac{9}{16}$$

$$y = \frac{3}{4}\left(\frac{3}{4}\right)x + 3$$

$$y = \frac{9}{16}x + 3$$

$$a = \frac{3}{4}$$