

$$\text{p. 194 } \textcircled{35} \quad \frac{1}{12}(48 + 24b) = 2(17 - 4b)$$

$$\begin{array}{r} 4 + 2b = 34 - 8b \\ -4 + 8b \quad -4 + 8b \end{array}$$

$$\frac{10b}{10} = \frac{30}{10}$$

$$b = 3$$

$$\text{p. 195 } \textcircled{49} \quad \frac{n+8}{5n-2} = \frac{3}{8}$$

$$(n+8) \cdot 8 = (5n-2) \cdot 3$$

$$8n + 64 = 15n - 6$$

$$\frac{-7n}{-7} = \frac{-70}{-7}$$

$$n = 10$$

p. 273 (16) slope $(-2, 0)$ and $(4, 9)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{9 - 0}{4 - (-2)} = \frac{9}{6} = \frac{3}{2}$$

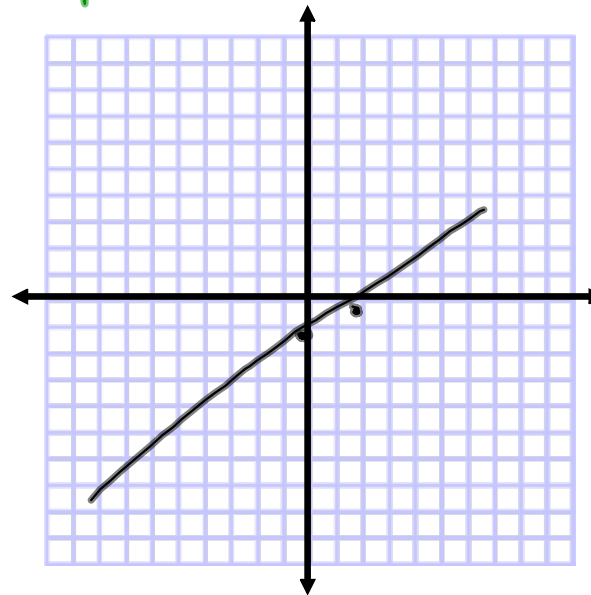
p. 273 (19) graph (slope/intercept)

$$3x - 6y = 9$$

$$y = mx + b$$

$$\begin{array}{r} -6y = -3x + 9 \\ \hline -6 \quad -6 \end{array}$$

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



p. 346 ⑩ equation for $(8, -4)$ $m = -3$

$$y = mx + b$$

$$y = -3x + b$$

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

$$-4 = -24 + b$$

$$20 = b$$

$$\boxed{y = -3x + 20}$$

p. 346 (12) equation for $(9, -2)$ $(-3, 2)$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{2 - (-2)}{-3 - 9} = \frac{4}{-12} = -\frac{1}{3}$$

$$y = mx + b$$

$$-2 = -\frac{1}{3}(9) + b$$

$$-2 = -3 + b$$

$$b = 1$$

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

p. 347 (19) equation of $\parallel \nparallel \perp$ (2, -3) $y = -2x - 3$

$$y = -2x + b$$

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

$$-3 = -4 + b$$

$$1 = b$$

$$y = -2x + 1$$

$$\frac{-2}{1} \Rightarrow +\frac{1}{2}$$

$$\frac{a}{b} \Rightarrow -\frac{b}{a} \text{ (perpendicular)}$$

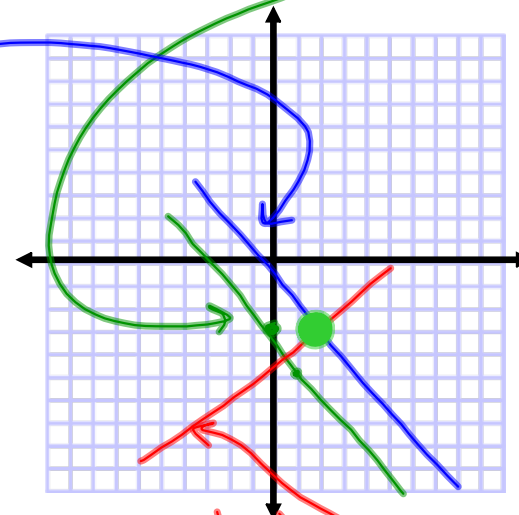
$$y = \frac{1}{2}x + b$$

$$-3 = \frac{1}{2}(2) + b$$

$$-3 = 1 + b$$

$$-4 = b$$

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



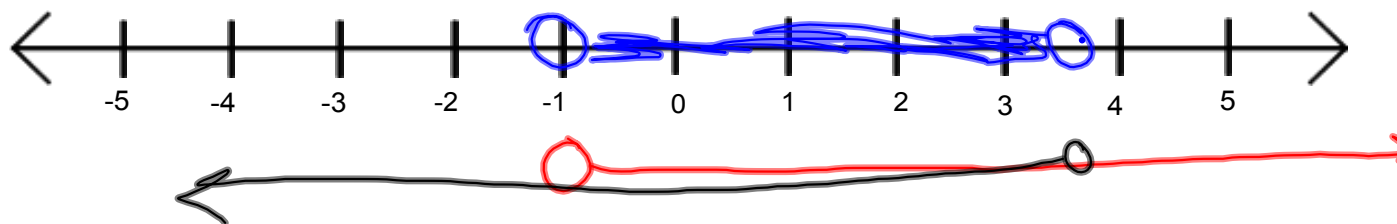
p. 417 (21) $-3 < -3x + 8 < 11$
 $-8 \quad -8 \quad -8$

$$\frac{-11}{-3} < \frac{-3x}{-3} < \frac{3}{-3}$$

$$\frac{11}{3} > x > -1$$

$$-1 < x < \frac{11}{3}$$

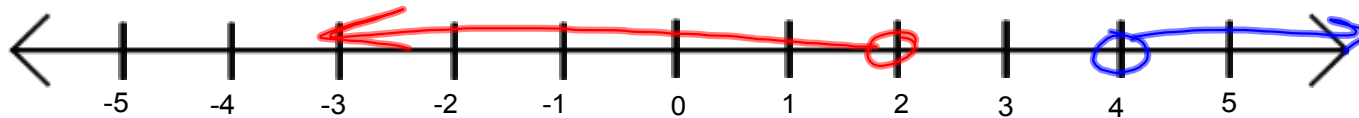
$$\frac{11}{3} = 3\frac{2}{3}$$



p. 417 (22) $9s - 6 < 12$ or $3s + 1 > 13$

$9s < 18$ $3s > 12$

$s < 2$ $s > 4$



p. 418 (43) graph $3x - 2y < 12$

$$3x - 2y < 12$$

$$\frac{-2y < -3x + 12}{-2}$$

$$y > \frac{3}{2}x - 6$$

$$0 > \frac{3}{2}(0) - 6$$

$$0 > -6 \text{ yes}$$

