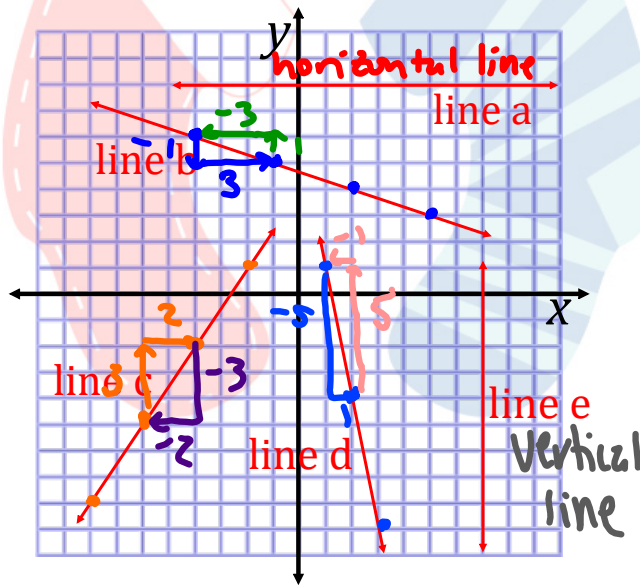


$\frac{\text{rise}}{\text{run}}$

# 9.3 & 9.5 REVIEW

1. Determine the slope of each line below.



- line a  $\frac{0}{\quad}$
- line b  $\frac{-1}{3} = \frac{-1}{3}$
- line c  $\frac{3}{2} = \frac{-3}{-2} = \frac{3}{2}$
- line d  $\frac{-5}{1} = -5$   $\frac{5}{-1} = -5$
- line e  $\frac{\text{no slope}}{\text{undefined}}$

Find the slope of the line passing through the given points.

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

2.  $(-4, -1), (5, -7)$

$$m = \frac{-7 - (-1)}{5 - (-4)} = \frac{-6}{9} = \frac{-2}{3}$$

3.  $(-3, -1), (2, -1)$

$$m = \frac{-1 - (-1)}{2 - (-3)} = \frac{0}{5} = 0$$

Write the following equations in slope-intercept form. Identify the slope and y-intercept.

$$4. y = 8 - \frac{4}{5}x$$

$$m = -\frac{4}{5}$$

$$b = 8$$

$$6. 3x + 5y = 25$$

$$\frac{5y}{5} = \frac{25 - 3x}{5}$$

$$y = 5 - \frac{3}{5}x$$

$$m = -\frac{3}{5}$$

$$b = 5$$

$$5. -6x + 2y = -14$$

$$\frac{2y}{2} = \frac{-14 + 6x}{2}$$

$$y = -7 + 3x$$

$$m = 3$$

$$b = -7$$

$$7. -x - 7y = -3$$

$$\frac{-7y}{-7} = \frac{-3 + x}{-7}$$

$$y = \frac{3}{7} - \frac{1}{7}x$$

$$m = -\frac{1}{7}$$

$$b = \frac{3}{7}$$