

Key

Kuta Software - Infinite Algebra I

Writing Linear Equations

Write the slope-intercept form of the equation of each line.

1) $3x - 2y = -16$

$$\begin{array}{r} -3x \quad -3x \\ \hline -2y = -3x - 16 \\ -2 \quad -2 \quad -2 \end{array}$$

$$y = \frac{3}{2}x + 8$$

3) $9x - 7y = -7$

$$\begin{array}{r} -9x \quad -9x \\ \hline -7y = -9x - 7 \\ -7 \quad -7 \quad -7 \end{array}$$

$$y = \frac{9}{7}x + 1$$

5) $6x + 5y = -15$

$$\begin{array}{r} -6x \quad -6x \\ \hline 5y = -6x - 15 \\ 5 \quad 5 \quad 5 \end{array}$$

$$y = -\frac{6}{5}x - 3$$

7) $11x - 4y = 32$

$$\begin{array}{r} -11x \quad -11x \\ \hline -4y = -11x + 32 \\ -4 \quad -4 \quad -4 \end{array}$$

$$y = \frac{11}{4}x - 8$$

2) $13x - 11y = -12$

$$\begin{array}{r} -13x \quad -13x \\ \hline -11y = -13x - 12 \\ -11 \quad -11 \quad -11 \end{array}$$

$$y = \frac{13}{11}x + \frac{12}{11}$$

4) $x - 3y = 6$

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

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

6) $4x - y = 1$

$$\begin{array}{r} -4x \quad -4x \\ \hline -y = -4x + 1 \\ -1 \quad -1 \quad -1 \end{array}$$

$$y = 4x - 1$$

8) $11x - 8y = -48$

$$\begin{array}{r} -11x \quad -11x \\ \hline -8y = -11x - 48 \\ -8 \quad -8 \quad -8 \end{array}$$

$$y = \frac{11}{8}x + 6$$