Write the following in slope-intercept form and then standard form.

The equation of the line containing the points (-4, 10) and (1, -6).

\[ y = mx + b \]

\[ m = \frac{\Delta y}{\Delta x} = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-6 - 10}{1 - (-4)} = -\frac{16}{5} \]

\[ y = -\frac{16}{5} x + b \]

\[-6 = -\frac{16}{5} (1) + b \]

\[-\frac{30}{5} = -\frac{16}{5} + b \]

\[-\frac{14}{5} = b \]

\[ y = -\frac{16}{5} x - \frac{14}{5} \]

\[ Ax + By = C \]

\[ 5 \cdot y = \left[-1\frac{4}{5}x - \frac{14}{5}\right] 5 \]

\[ 5y = -16x - 14 \]

\[ 12x + 5y = -14 \]