1. Given the equation: \(4x - 3y = 6\)

Solve the equation for \(y\) and graph using the slope and \(y\) intercept. **Show the rise and run on your graph.**
Answers

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Solve the equation for \(y\) and graph using the slope and \(y\) intercept. **Show the rise and run on your graph.**

\[
\begin{align*}
4x - 3y &= 6 \\
-4x &\quad -4x \\
-3y &= -4x + 6 \\
\quad -3 &\quad -3 \\
y &= \frac{4}{3}x - 2
\end{align*}
\]

Looking at the equation, it can be seen that the slope \(m = \frac{4}{3}\) and \(b = -2\).

So, the coordinates of the \(y\) intercept are \((0, -2)\) which we graph first.

\(m = \frac{4}{3}\) which can be written as \(\frac{+4}{+3}\). So the rise is +4 and the run is +3.

Graph of \(4x - 3y = 6\)