## Script

Course: Geometry Unit: Lines and the Coordinate Plane Section: Graphing the Equation of a Line

**Example: Graphing Lines Using Intercepts** 

## Problem:

Consider the equation four x minus three y equals twelve.

## Solution:

We start by finding the x-intercept. Four x minus three y equals twelve. Plug in zero for y. Four x equals twelve. x equals three. This means that 3 is the x-intercept, so we plot it on the graph.

Next, find the y-intercept. Four x minus three y equals twelve. Plug in zero for x. Negative three y equals twelve. y equals negative four. The y-intercept is negative four, so we plot this point on the graph.

Finally, connect the points with a straightedge.