Coordinate Plane Worksheet:

1) Algebraically find the *x*- and *y*-intercepts. Use the *x*- and *y*-intercepts to graph the equation of the line.
Do Not Use A Table. Label and assign values to all axes.

$$4x+3y=12$$

2) Write the equation in slope-intercept form. Determine the slope and the y-intercept

$$-3x+5y=15$$

a) Slope:
b) *y*-intercept:
c) Sketch the graph of the line.

3) Find the slope of the line passing through the given points. Show all your work.

$(-4,3)$ and $(2,-6)$

4) Write the equation of the line passing through the given point and given slope. Show all your work.

$(-5,4)$ and $m=-\frac{2}{5}$ No decimal answers.

5) Write the equation of the line passing through the given points.
Show all your work.

$(7,-3)$ and $(1,-2)$

6) Graph the line given the point and the slope. Label and assign values to all axes.

$(-4,-4)$, m is undefined