

Section 3.3 Graphing Linear Functions

When graphing ANYthing in this class, I look for the *essence*. Don't waste time on details I don't care about and make *sure* you display the details on which I insist!

Label the function.

Label the x - and y -axes

Label key points on the graph as ordered pairs, enclosed in parentheses.

You will *not* receive full credit otherwise.

Many students come into 099 thinking their teacher will count tickmarks on the x - and y -axis to see if they got the point in the right place. While there's nothing *wrong* with using tickmarks, you *still* need to label key points with ordered pairs.

Degenerate lines:

Vertical:

Horizontal:

A NON-degenerate line will have both an x - and a y -intercept.

A line through the origin: Label the intercept and then find a 2nd point, using the slope or just by plugging-in a second x -value to find the corresponding y -value and plotting the resulting point.

Except for the case when the line passes through the origin, you will always have two DIFFERENT x - and y -intercepts. You're expected to label these.