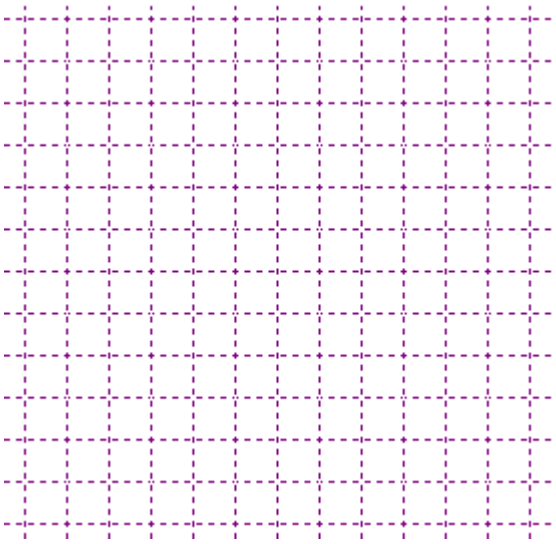
MTH 60 Worksheet 6 Name_____

Instructor: Kandace Kling Due: Monday, 3/7/16 at 11:00 am

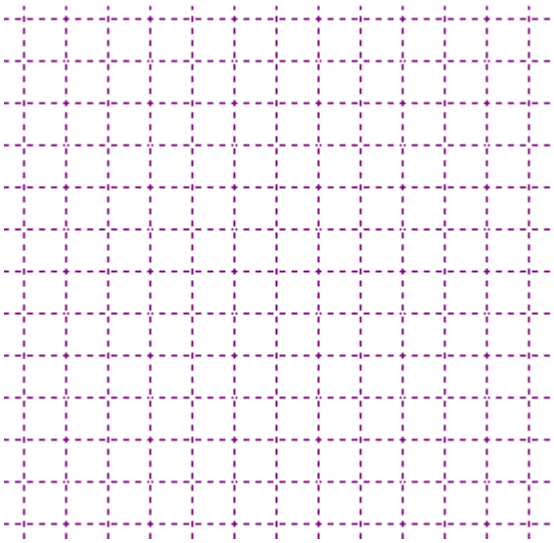
To earn full credit for this worksheet, you must follow the MTH 60 Documentation guidelines and do your work in pencil. No late work accepted.

For all graphs, be sure to label and scale the axes. Choose appropriate scales so that you can plot points (without estimating) on the grid and so that both intercepts are shown. Plot a minimum of three points. Use a straight-edge to draw all lines, including the axes. Extend your line across the grid.

1. Use the slope and vertical-intercept to graph $12x - 3y = 18$.



2. Graph $y = -\frac{2}{15}x + 3$.



3. Find the slope of the line graphed (include the unit) and explain what it means in practical terms. Make sure to interpret the slope as a rate (as we practiced in class).

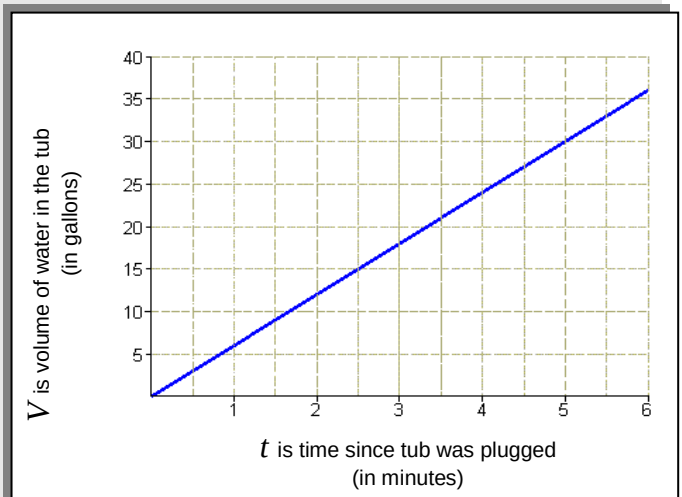


Figure 1: Volume of water in Lucy's bathtub

4. Write the point-slope form of the equation of the line passing through $(-3,5)$ with slope 2. Then use the point-slope form of the equation to write the slope-intercept form of the equation.