

Graphing Assignment (Formative) – Due: _____**Instructions: Draw all graphs on grid paper. Be sure to show all supporting work as well.**

1. Graph each of the following lines by first creating a table of values (min. 5 points)
 - a) $y = 2x - 5$
 - b) $3x + 4y = 12$
 - c) $2x - 4y = 0$
2. Graph each of the following lines by first determining the x and y intercepts.
 - a) $2x - 3y = 12$
 - b) $5x + 4y - 10 = 0$
 - c) $2x + 3y = 12$
3. Graph each of the following lines by determining the slope and y-intercept.
 - a) $3x - 5y = 10$
 - b) $x + 2y = 0$
 - c) $x - 2y - 4 = 0$
4. An appliance repair person charges \$50 for a service call and \$40 per hour for time spent repairing a kitchen appliance.
 - a) Which variable is independent? Which variable is dependent?
 - b) Write an equation to represent the total charge for a given amount of time (be sure to define the variables using “let” statements)
 - c) Graph the relation using points representing time spent up to 5 hours.
 - d) Using your equation, determine the total charge for a service call of 3.5 hours.
 - e) Using your equation, determine the number of hours for a service call that costs \$120.
5. The maximum number of tickets that can be sold for a school play is 350. The total profit earned, P , can be determined using the equation $P = 4.50n - 1080$, where n is the total number of tickets sold.
 - a) Graph the relation using a table of values (use multiples of 50, from 0 to 350, to represent the number of tickets sold).
 - b) Determine the intercepts of this relation. Explain what each intercept represents.
 - c) What is the slope of this relation? Explain what the slope represents.