Mission #1: Graphing Linear Equations

Objective: By the end of this mission, you will be able to graph a line written in slope-intercept form (y=mx+b) OR f(x)=mx+b

Instructions: (Team member closest to the $\underline{\text{courtyard}}$ $\underline{\text{door}}$ please read the instructions OUT LOUD)

- 1. **EVERY team member** must **write their name and complete** the **six practice problems** on the worksheet (use the step-by-step guide below)
- 2. Once done, please **use the Answer Key** included in the "Top Secret" folder of your packet to **check your work**.
- 3. When all members have complete understanding of this objective, place ALL completed worksheets and turn it in to the teacher

Step-By-Step Guide (Graphing lines in slope-int form)

Example: Graph $\mathbf{y} = -\frac{2}{3}x + 4$

Step 1:

Identify the slope and y-intercept in your symbolic function

Step 2:

Plot the y-intercept

Step 3:

Starting from the y-intercept, use the slope to find the next point

Step 4:

Connect your y-intercept & new point with a straight line. Be sure to include arrows at the ends of your line



