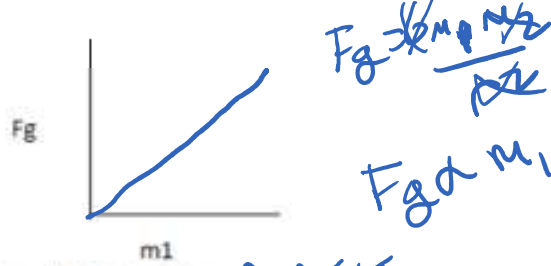
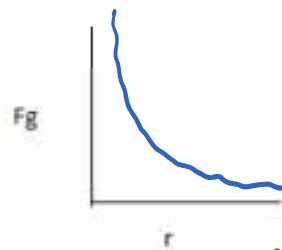


3. $F_g = \frac{Gm_1m_2}{r^2}$ (assume the variable that is not being plotted is a constant)

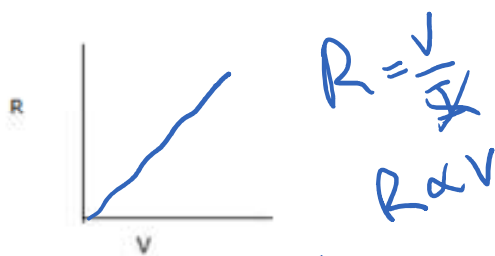


Type of Relationship: DIRECT (LINEAR)

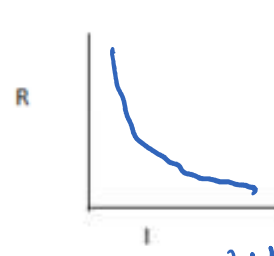


Type of Relationship: INVERSE SQUARED

4. $R = \frac{V}{I}$ (assume the variable that is not being plotted is a constant)



Type of Relationship: LINEAR (DIRECT)

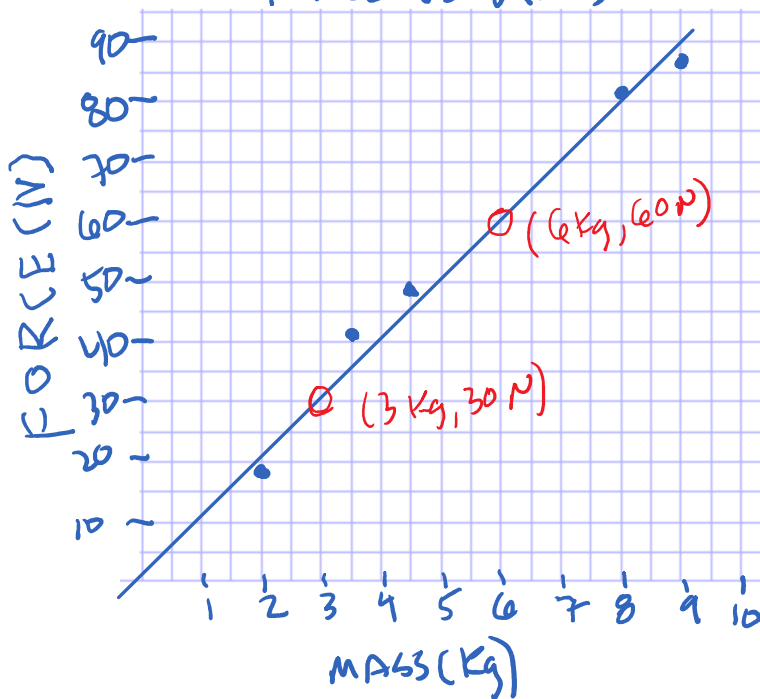


Type of Relationship: INVERSE

VII. Graphing

Based on the data below, plot a Force (y-axis) vs. Mass (x-axis) graph. Draw a best fit line and calculate the slope of the line. Be sure to fully label your graph.

FORCE VS MASS



Mass (kg)	Force (N)
2	18.1 N
4	40.2 N
5	48.5 N
8	80.4 N
9	86.1 N

Calculation for slope:

$$m = \frac{\Delta y}{\Delta x} = \frac{60\text{N} - 30\text{N}}{6\text{kg} - 3\text{kg}} = \frac{30\text{N}}{3\text{kg}} = \boxed{10 \text{ N/kg}}$$