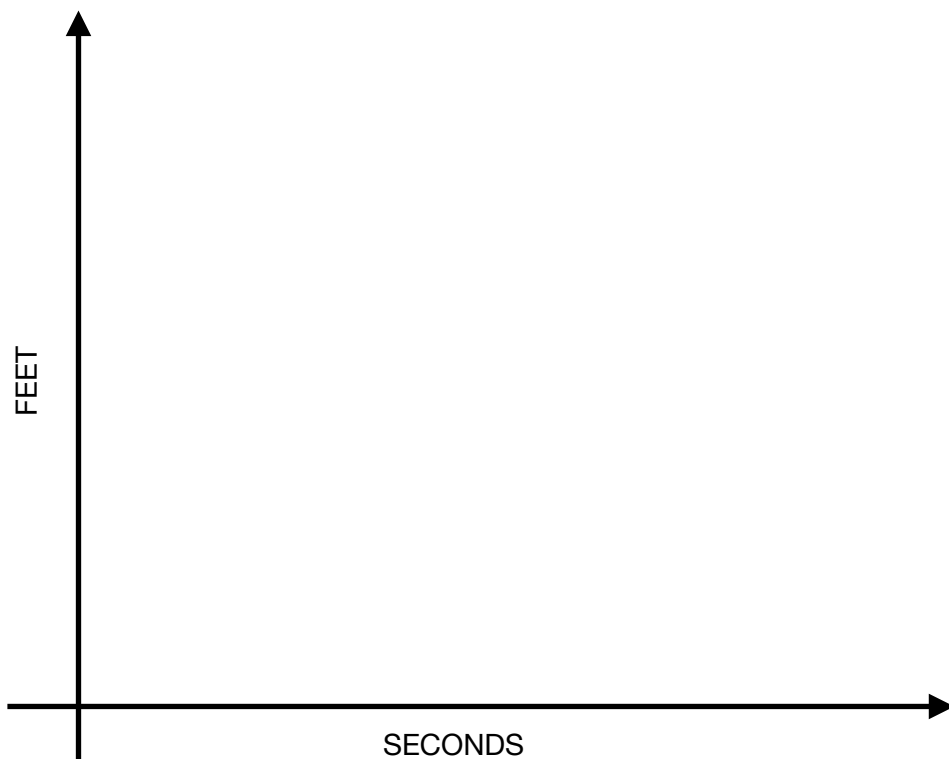


1. The path of a hamster performing stunts by jumping off of high places is given by the equation $y = -16t^2 + 24t + 16$ where "y" is the vertical height in feet and "t" is time in seconds.

That said, do the following....

- State if the graph has a minimum or a maximum.
- State the coordinate of the minimum or maximum and state what it means in reference to the scenario.
- State the coordinate of y-intercept and state what it mean in reference to the scenario.
- Graph the scenario below. Use a SKETCH and LABEL all point you used.



1. The path of a hamster diving into water is given by the equation $y = \frac{1}{2}x^2 - 6x$ where "y" is the vertical height in feet and "x" is horizontal distance in feet. That said, do the following....

- State if the graph has a minimum or a maximum.
- State the coordinate of the minimum or maximum and state what it means in reference to the scenario.
- State the coordinate of y-intercept and state what it mean in reference to the scenario.
- Graph the scenario below. Use a SKETCH and LABEL all point you used.

