

vertex

$$\frac{-13}{2A} \frac{-(-6)}{2(\frac{1}{2})} \frac{6}{1}$$

- 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.

$$A = \frac{1}{2}$$
 Winimum

State the coordinate of the minimum or maximum and state what it means in reference to the scenario.
Vertex = (6, -18)

- $\frac{1}{2}(0)^{3} 6(0) = 0 \qquad (0,0)$ Starts 0 et in the air
- · Graph the scenario below. Use a SKETCH and LABEL all point you used.

