

## Objective -

## To graph a quadratic function from intercept form.

When graphing a quadratic we will graph 4 things:

- > x-intercepts
- > y-intercept
- > vertex
  - <u>The lowest point or the highest point on a parabola is</u> <u>called the vertex.</u>

- For any y-intercept, the x-value is equal to:  $\underline{2ero}$ .
- For any x-intercept, the y-value is equal to: 2erO.
- To find the vertex, we will first find the x-value and then substitute that in the equation to find the corresponding y-value.
  - > We can find the vertex 2 ways

$$-x = \frac{-b}{2a} \qquad OX^{2} + bX + C$$
$$- OR$$

- halfway between the two x-intercepts.

## Alg. 1 Week 1 Day 1 - 4th hour.notebook



