## **Quadratics in Vertex Form:**

## **Increasing and Decreasing**

A quadratic can be written in many forms:

- Vertex Form:  $y = a(x h)^2 + k$
- Transformation Form: y = a(bx c) + d
- Factor Form: y = a(x b)(x c)
- Standard Form:  $y = ax^2 + bx + c$

This station will focus on what interval(s) [or "when" x-values] a function is increasing and on what intervals [or "when" x-values] it is decreasing. The maximum/minimum is the break point used.

