

$$y = a(x-h)^2 + k$$



stretches parabola

→ If 'a' is not a whole number, the parabola compresses

→ If 'a' is a negative, the parabola opens down

→ If 'a' is positive, the parabola opens up



Moves parabola left/right

★ If $\ominus$ number, it moves right

→ If $\oplus$ number, moves left

→ X-value of vertex
→ Axis of symmetry

Moves parabola up/down

$\oplus$ = up

$\ominus$ = down

↳ y-value of vertex