

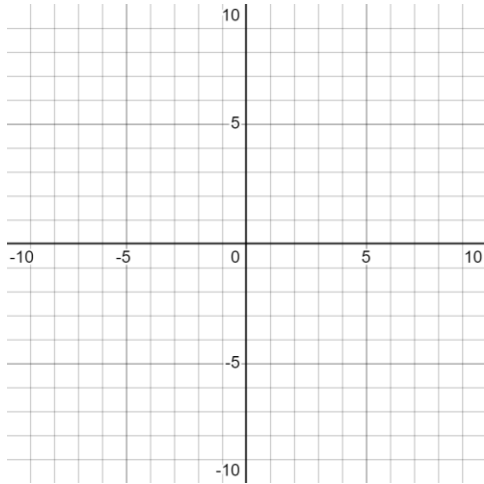
Include:

- Axis of Symmetry
- Vertex
- Domain/Range

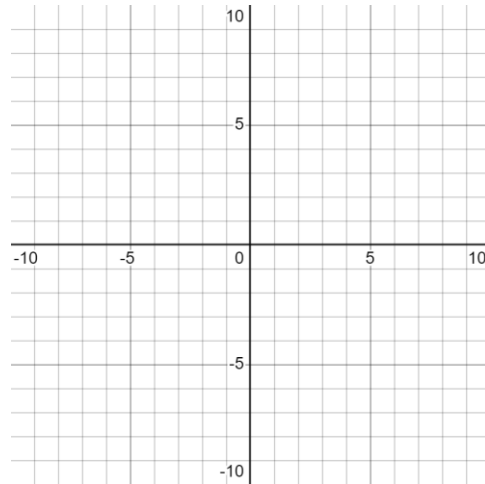
Section 2.1b – Graphing Parabolas

No Shift – Find your Axis of Symmetry

$$y = x^2$$

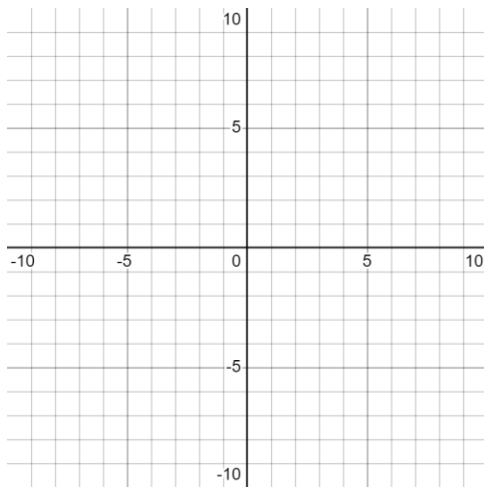


$$y = -x^2$$

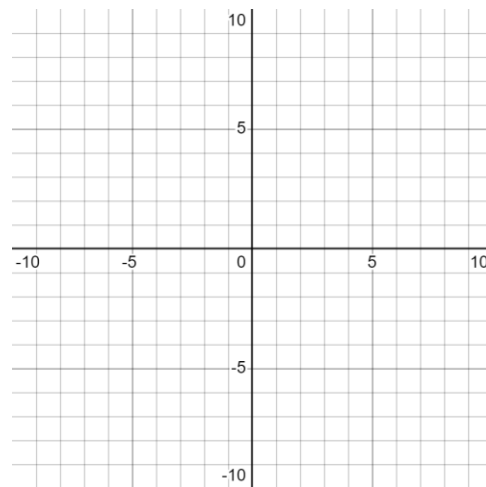


Vertical Shift – Find your Axis of Symmetry

$$y = x^2 - 4$$

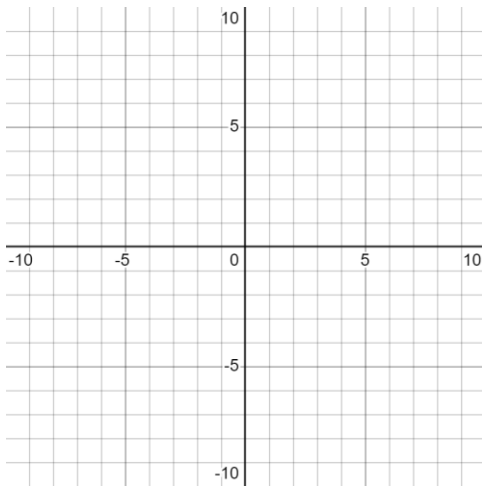


$$y = -x^2 + 4$$

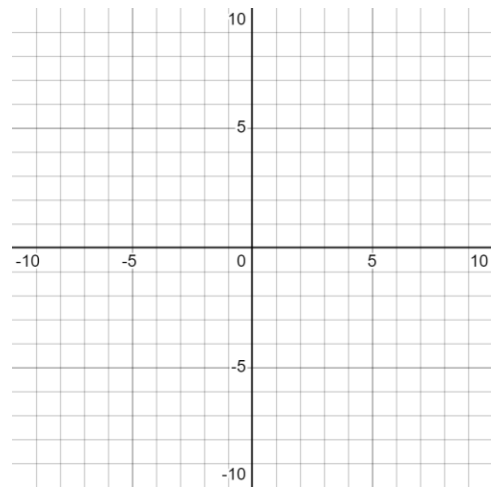


Horizontal Shift – What makes the inner portion 0? That is your Axis of Symmetry

$$y = (x - 3)^2$$

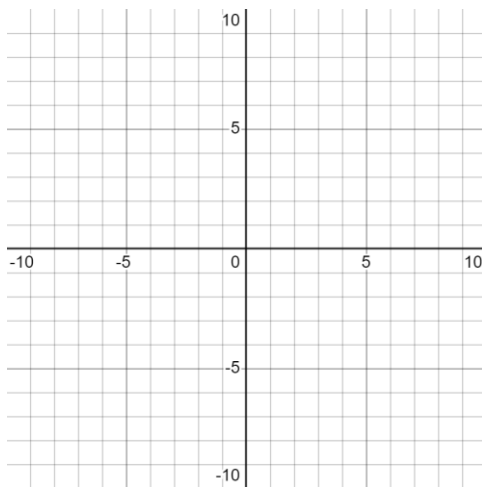


$$y = (x + 5)^2$$



Both Shift – What makes the inner portion 0? That is your Axis of Symmetry

$$y = (x + 2)^2 - 4$$



$$y = (x - 1)^2 + 3$$

