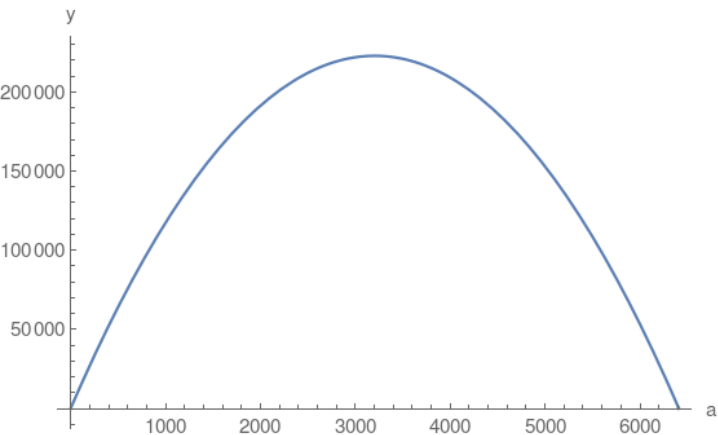## 3.

3. (a) To solve for the MIN/MAX, first calculate the vertex:

$$\text{vertex} = \frac{-139}{2\frac{(-17)}{28^2}} = \frac{54\,488}{17}$$

since the height y of the projectile is governed by a Parabola equation.