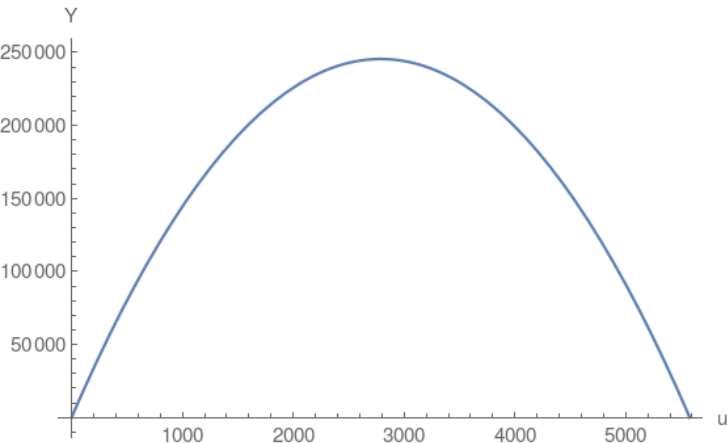


3.

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

$$\text{vertex} = \frac{-176}{2 \frac{(-23)}{27^2}} = \frac{64152}{23}$$



since the height Y of the projectile is governed by a Parabola formula.