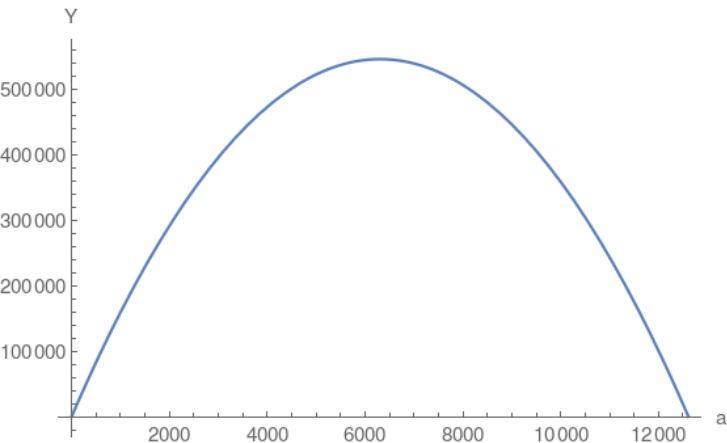


3.

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

$$\text{vertex} = \frac{-173}{2 \frac{(-10)}{27^2}} = \frac{126117}{20}$$



since the height Y of the projectile is modeled by a Parabola function.