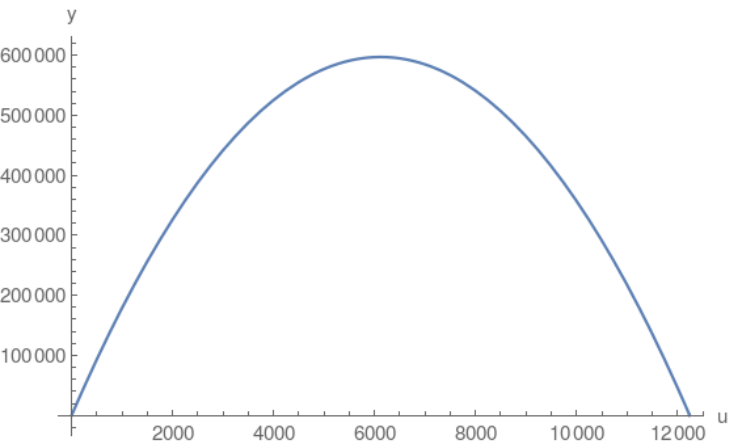


3.

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

$$\text{vertex} = \frac{-195}{2 \frac{(-23)}{38^2}} = \frac{140790}{23}$$



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