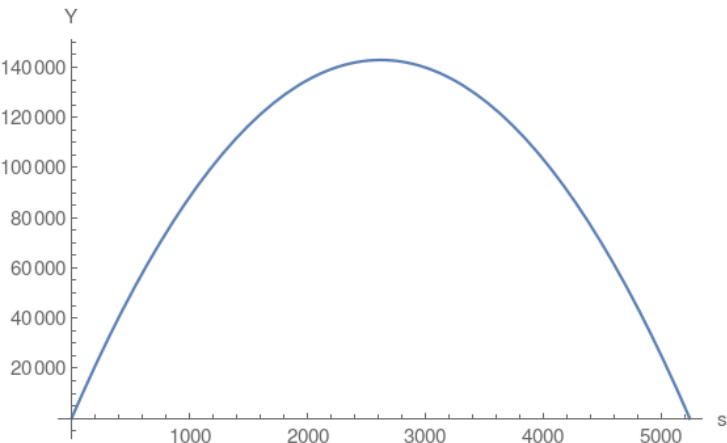


2.

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

$$\text{vertex} = \frac{-109}{2 \frac{(-11)}{23^2}} = \frac{57661}{22}$$



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