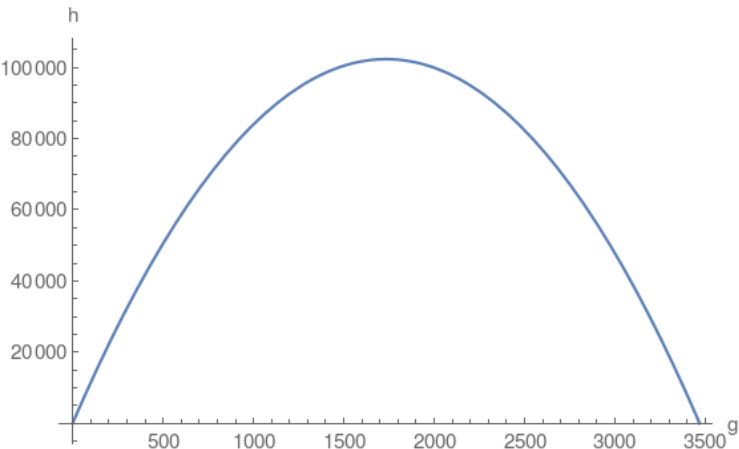


3.

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

$$\text{vertex} = \frac{-118}{2 \frac{(-18)}{23^2}} = \frac{31211}{18}$$



since the height h of the projectile is modeled by a Parabola formula.