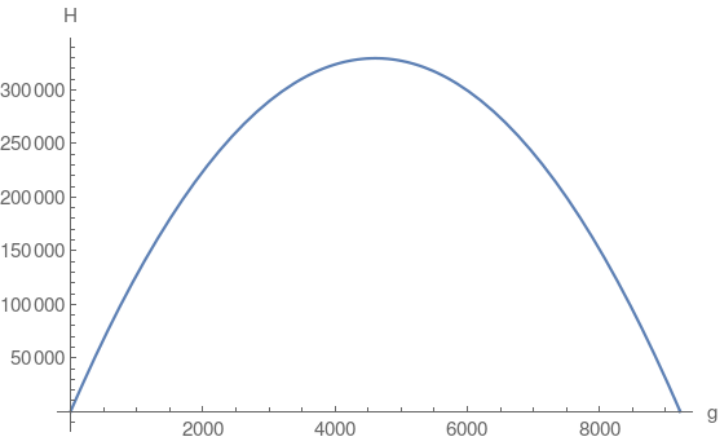


3.

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

$$\text{vertex} = \frac{-143}{2 \frac{(-19)}{35^2}} = \frac{175175}{38}$$



since the height H of the projectile is governed by a Parabola function.