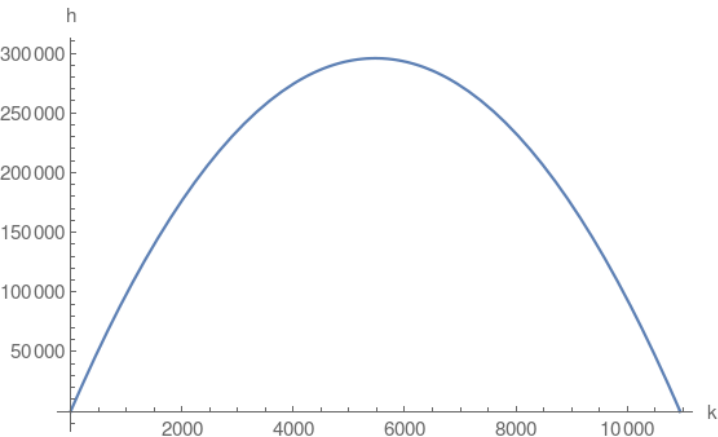# 3.

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

$$\text{vertex} = \frac{-108}{2\frac{(-15)}{39^2}} = \frac{27\,378}{5}$$

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