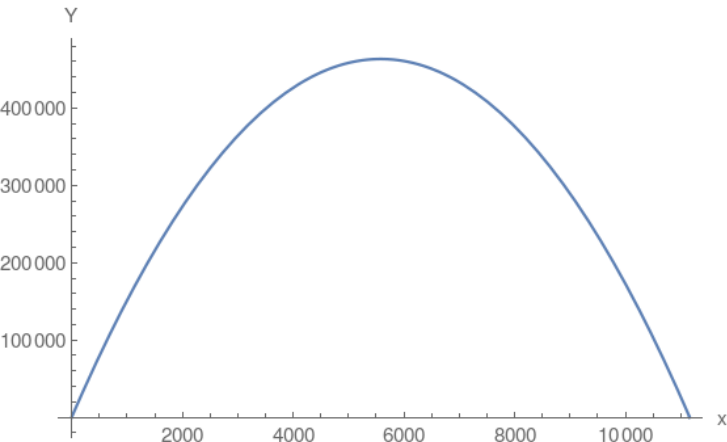# 3.

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

$$\text{vertex} = \frac{-166}{2\frac{(-25)}{41^2}} = \frac{139\,523}{25}$$



since the height Y of the projectile is governed by a Parabola formula.