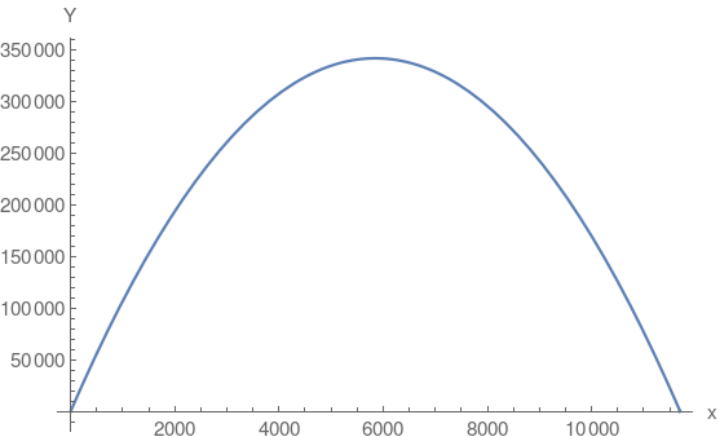


3.

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

$$\text{vertex} = \frac{-117}{2 \frac{(-16)}{40^2}} = 5850$$



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