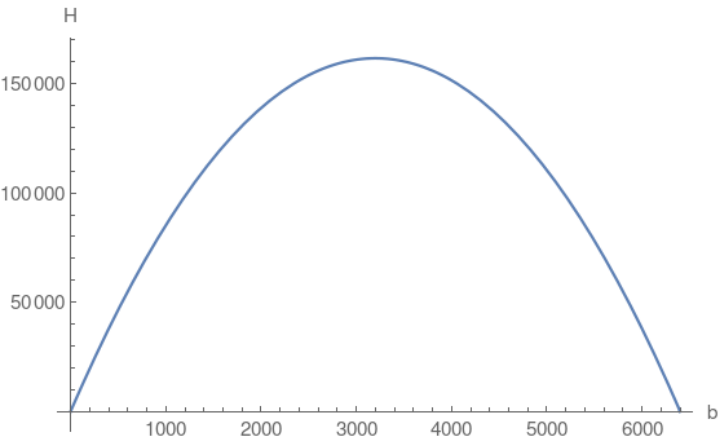


3.

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

$$\text{vertex} = \frac{-101}{2 \frac{(-24)}{39^2}} = \frac{51207}{16}$$



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