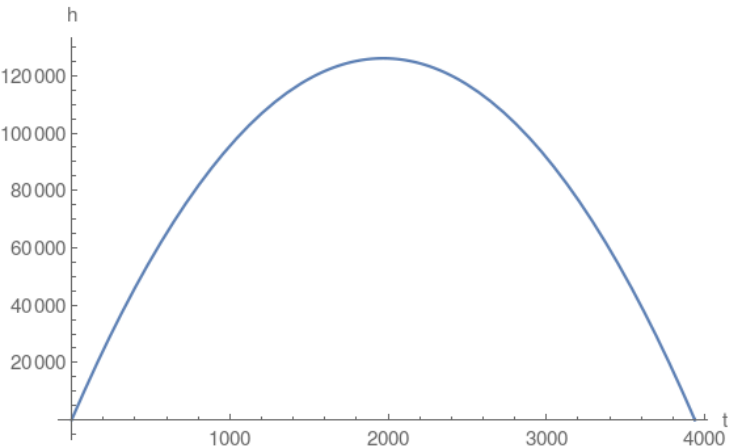


1.

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

$$\text{vertex} = \frac{-128}{2 \cdot \frac{(-13)}{20^2}} = \frac{25600}{13}$$



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