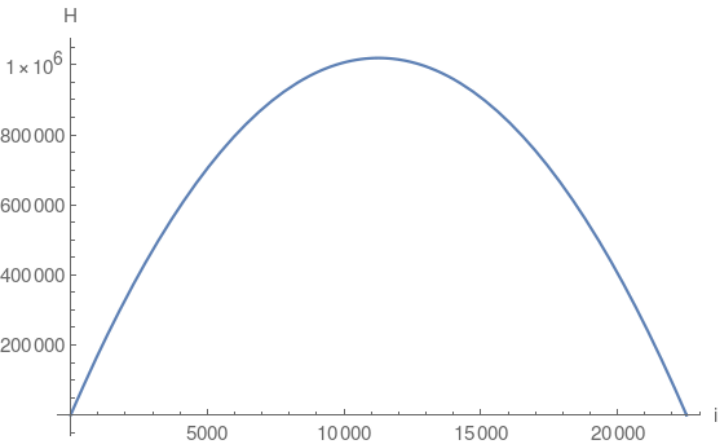


1.

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

$$\text{vertex} = \frac{-181}{2 \cdot \frac{(-11)}{37^2}} = \frac{247789}{22}$$



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