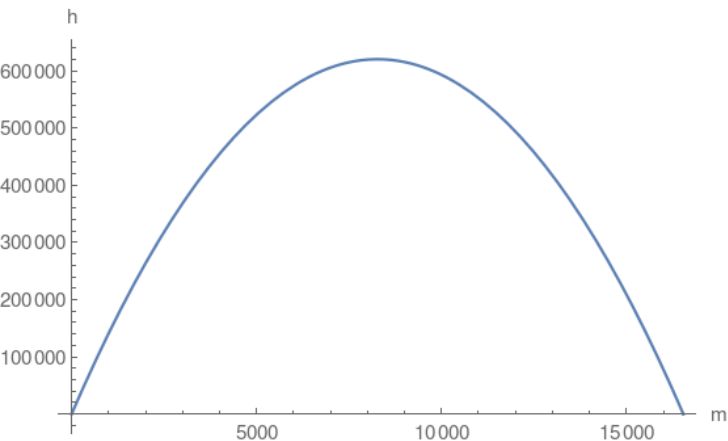


2.

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

$$\text{vertex} = \frac{-150}{2 \frac{(-16)}{42^2}} = \frac{33075}{4}$$



since the height h of the projectile is modeled by a Parabola equation.