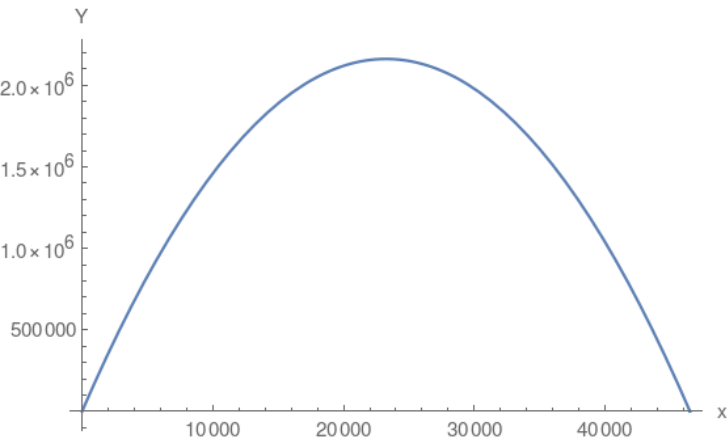


3.

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

$$\text{vertex} = \frac{-186}{2 \frac{(-10)}{50^2}} = 23\,250$$



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