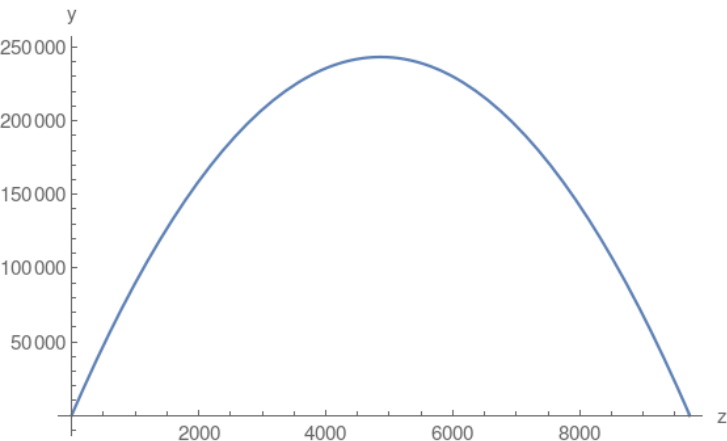


3.

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

$$\text{vertex} = \frac{-100}{2 \frac{(-19)}{43^2}} = \frac{92450}{19}$$



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