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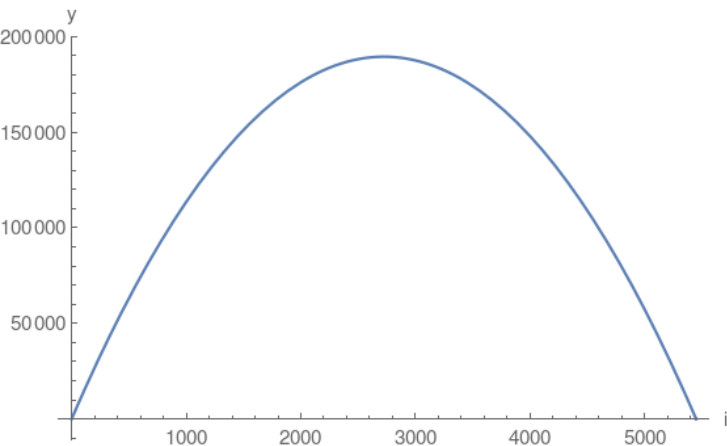
3. (1) To find the MIN/MAX, first calculate the vertex:

$$\text{vertex} = \frac{-139}{2\frac{(-20)}{28^2}} = \frac{13622}{5}$$

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