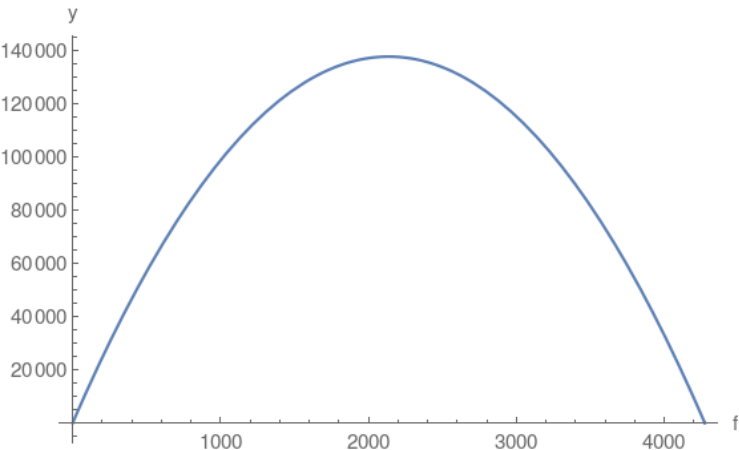**4.**

4. (a) To compute the MIN/MAX, first calculate the vertex:

$$\text{vertex} = \frac{-129}{2\frac{(-22)}{27^2}} = \frac{94\,041}{44}$$



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