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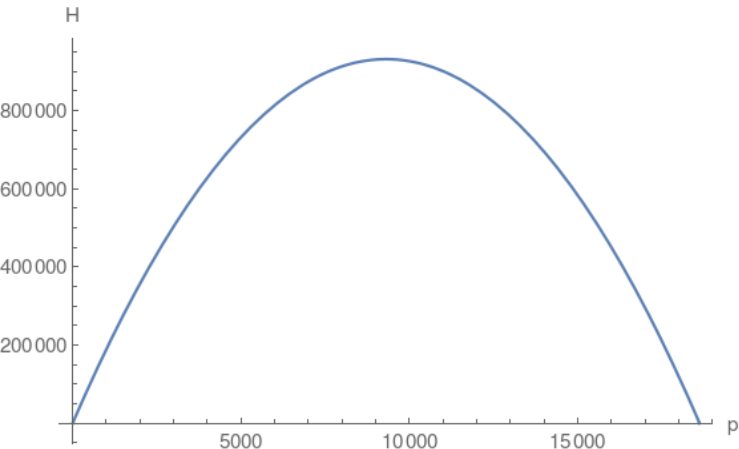
4. (1) To compute the MIN/MAX, first calculate the vertex:

$$\text{vertex} = \frac{-200}{2\frac{(-11)}{32^2}} = \frac{102400}{11}$$

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