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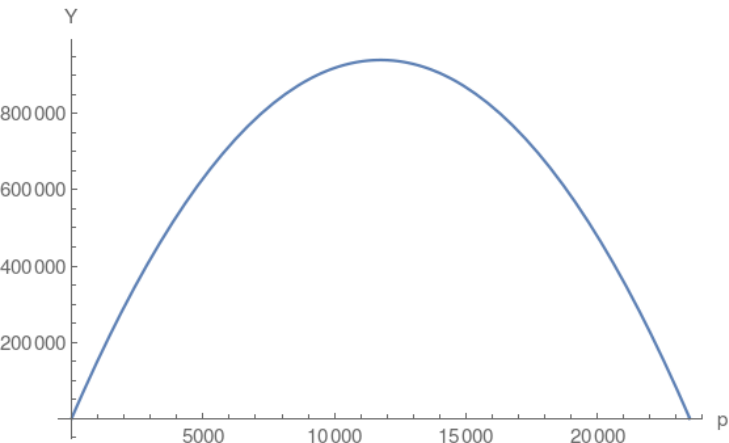
4. (A) To compute the MIN/MAX, first calculate the vertex:

$$\text{vertex} = \frac{-160}{2\frac{(-12)}{42^2}} = 11\,760$$

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