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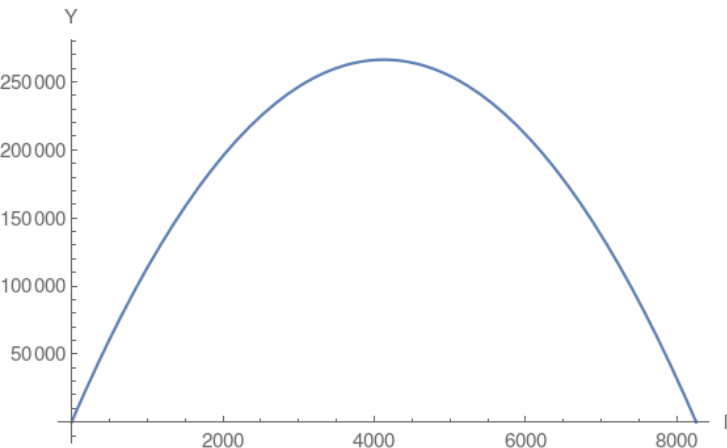
4. (A) To solve for the MIN/MAX, first calculate the vertex:

$$\text{vertex} = \frac{-129}{2\frac{(-16)}{32^2}} = 4128$$

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