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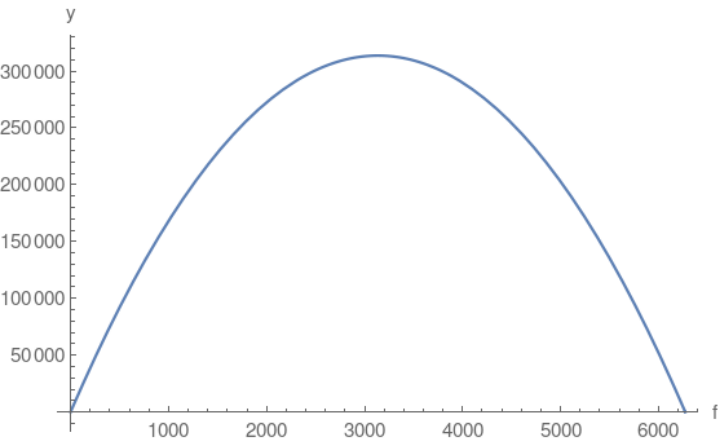
1. (A) To find the MIN/MAX, first calculate the vertex:

$$\text{vertex} = \frac{-200}{2\,\frac{(-25)}{28^2}} = 3136$$

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