2. (a) The height Y of the projectile is modeled by a parabola function. Calculate the vertex to compute MIN/MAX: $vertex = \frac{-167}{2\frac{(-22)}{38^2}} = \frac{69287}{11}$ $vertex = \frac{-167}{2\frac{(-22)}{38^2}} = \frac{69287}{11}$

