





EXAMPLE #1:

A rocket carrying fireworks is launched from a hill 80 feet above a lake. The rocket will fall into lake after exploding at its maximum height. The rocket's height above the surface of the lake is given by $h(t) = -16t^2 + 64t + 80$. Where h is height in feet and t is time in seconds. At what height will the rocket explode?

EQUATION: $Y = -16\chi^{2} + 64\chi + 80$ 2505, 144FtSOLUTION:

