

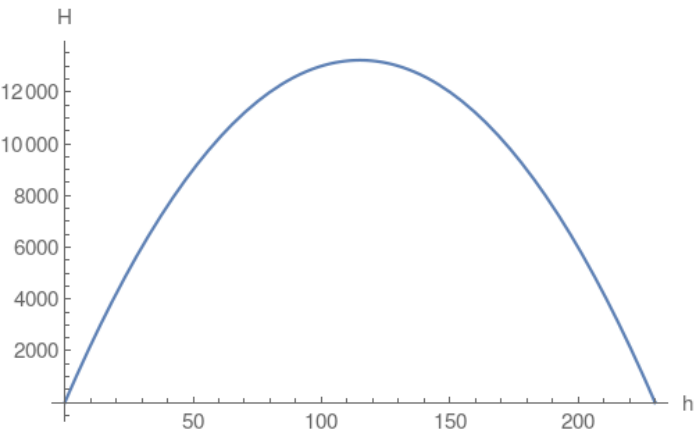
2.

2. Perimeter of rectangle = $2(h+a)=460$ where a is the length of the other edge of rectangle. Area of the rectangle is $= h \times a$.

Use perimeter equation

and solve for $a = \frac{460-2h}{2}$

Then reformulate the area $H = h \times a = 230h - h^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{460}{2}$ and then plug the vertex into the area which will compute the maximum area.