

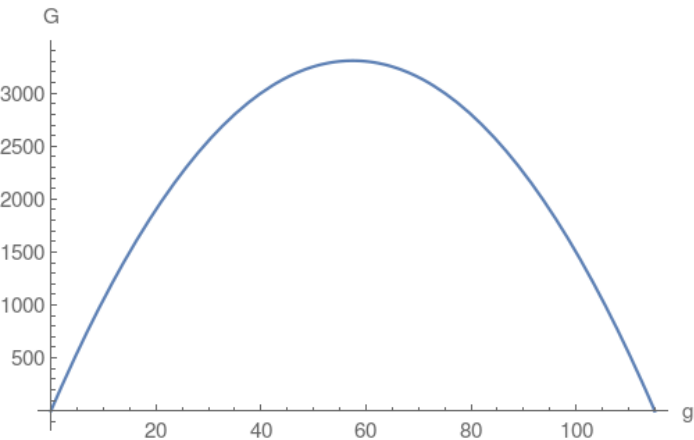
2.

2. Perimeter of rectangle = $2(g+a)=230$ where a is the length of the other edge of rectangle. Area of the rectangle is = $g \times a$.

Use perimeter equation

and solve for $a = \frac{230-2g}{2}$

Then reformulate the area $G = g \times a = 115g - g^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{230}{4}$ and then plug the vertex into the area which will compute the maximum area.