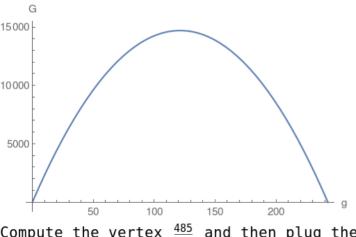
3. Perimeter of rectangle = 2(g+a)=485 where a is the length of the other edge of rectangle. Area of the rectangle is = $\mathsf{g} imes \mathsf{a}$. Use perimeter equation

Then reformulate the area $G=g \times a = \frac{485 \, g}{2} - g^2$ which turns out to be a quadratic Parabola:

and solve for $a = \frac{485-2g}{2}$



Compute the vertex $rac{485}{4}$ and then plug the vertex into the area which will compute the maximum area.