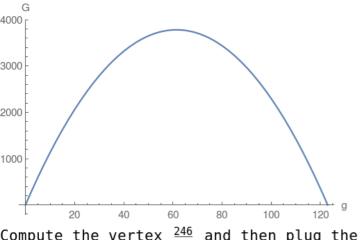
2.

other edge of rectangle. Area of the rectangle is = $g \times a$.

2. Perimeter of rectangle = 2(g+a)=246 where a is the length of the

and solve for $a=\frac{246-2g}{2}$ Then reformulate the area $G=g\times a=123\ g-g^2$ which turns out to be a quadratic Parabola:



Use perimeter equation

Compute the vertex $rac{246}{4}$ and then plug the vertex into the area which will compute the maximum area.