2.

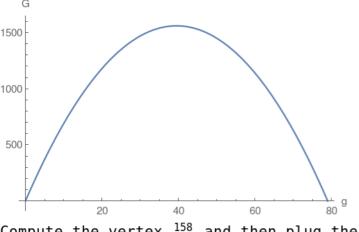
other edge of rectangle. Area of the rectangle is = $g \times a$.

2. Perimeter of rectangle = 2(g+a)=158 where a is the length of the

a quadratic Parabola:

G
1500

Then reformulate the area $G = g \times a = 79 g - g^2$ which turns out to be



Use perimeter equation and solve for $a = \frac{158-2g}{2}$

Compute the vertex $\frac{158}{4}$ and then plug the vertex into the area which will compute the maximum area.