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other edge of rectangle. Area of the rectangle is = $g \times a$. Use perimeter equation and solve for $a = \frac{401-2g}{2}$

2. Perimeter of rectangle = 2(g+a)=401 where a is the length of the

Then reformulate the area $G = g \times a = \frac{401\,g}{2} - g^2$ which turns out to be a quadratic Parabola:

2000

Compute the vertex $\frac{401}{4}$ and then plug the vertex into the area which will compute the maximum area.