2.

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

Use perimeter equation and solve for $a=\ \frac{376-2g}{2}$

Then reformulate the area $G = g \times a = 188 g - g^2$ which turns out to be

2. Perimeter of rectangle = 2(g+a)=376 where a is the length of the

a quadratic Parabola: 8000 6000 4000 2000 50 100 150

Compute the vertex $\frac{376}{4}$ and then plug the vertex into the area which will compute the maximum area.