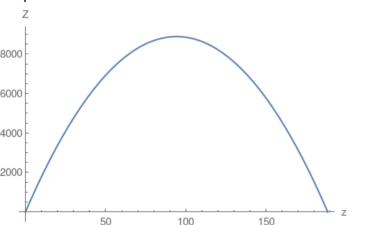
2.

other edge of rectangle. Area of the rectangle is = z×a. Use perimeter equation

2. Perimeter of rectangle = 2(z+a)=377 where a is the length of the

Then reformulate the area $Z=z\times a=\frac{377\,z}{2}-z^2$ which turns out to be a quadratic Parabola:

and solve for $a = \frac{377-2z}{2}$



Compute the vertex $\frac{377}{4}$ and then plug the vertex into the area which will compute the maximum area.