

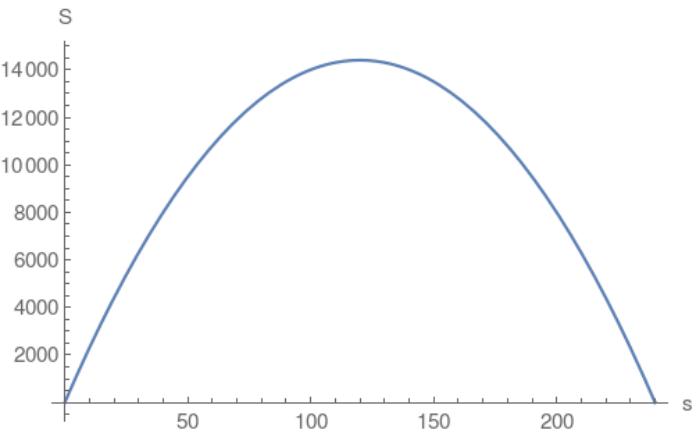
2.

2. Perimeter of rectangle = $2(s+a)=480$ where a is the length of the other edge of rectangle. Area of the rectangle is = $s \times a$.

Use perimeter equation

and solve for $a = \frac{480-2s}{2}$

Then reformulate the area $S = s \times a = 240s - s^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{480}{2}$ and then plug the vertex into the area which will compute the maximum area.