

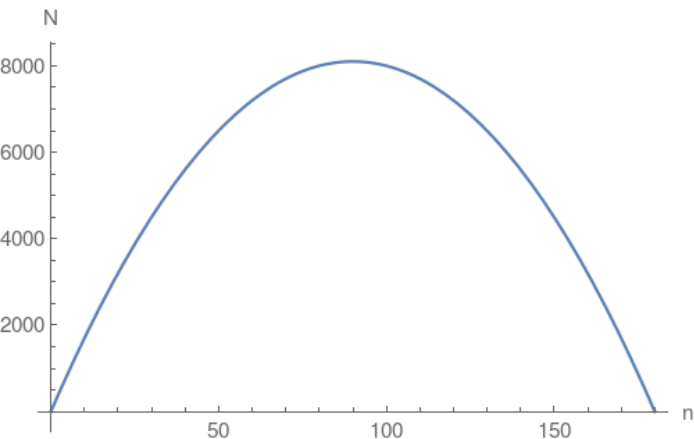
2.

2. Perimeter of rectangle = $2(n+a)=360$ where a is the length of the other edge of rectangle. Area of the rectangle is $= n \times a$.

Use perimeter equation

and solve for $a = \frac{360-2n}{2}$

Then reformulate the area $N = n \times a = 180n - n^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{360}{2}$ and then plug the vertex into the area which will compute the maximum area.