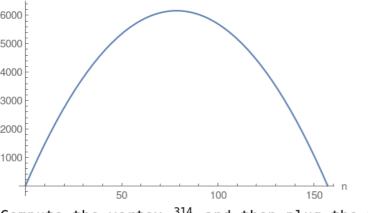
2.

other edge of rectangle. Area of the rectangle is = $n \times a$. Use perimeter equation and solve for $a = \frac{314-2n}{2}$

2. Perimeter of rectangle = 2(n+a)=314 where a is the length of the

Then reformulate the area N= n×a = 157 n - n² which turns out to be a quadratic Parabola:

N
6000
4000
4000



Compute the vertex $\frac{314}{4}$ and then plug the vertex into the area which will compute the maximum area.