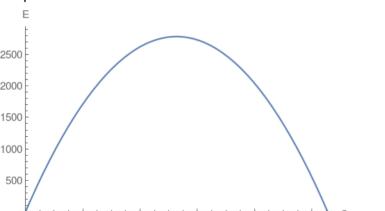
2.

other edge of rectangle. Area of the rectangle is = $e \times a$. Use perimeter equation and solve for $a = \frac{211-2e}{2}$

2. Perimeter of rectangle = 2(e+a)=211 where a is the length of the

Then reformulate the area $E= e \times a = \frac{211e}{2} - e^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{211}{4}$ and then plug the vertex into the area which will compute the maximum area.