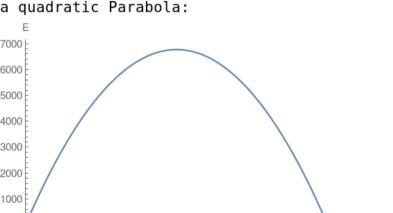
2.

other edge of rectangle. Area of the rectangle is = $e \times a$. Use perimeter equation

2. Perimeter of rectangle = 2(e+a)=329 where a is the length of the

and solve for $a=\frac{329-2e}{2}$ Then reformulate the area $E=e\times a=\frac{329\,e}{2}-e^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{329}{4}$ and then plug the vertex into the area which will compute the maximum area.