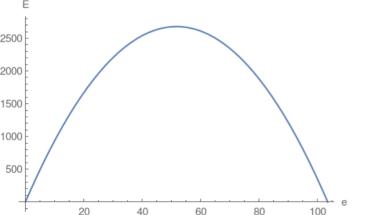
other edge of rectangle. Area of the rectangle is =  $\mathsf{e} imes \mathsf{a}$ .

Use perimeter equation and solve for  $a = \frac{207-2e}{3}$ Then reformulate the area  $E=e\times a=\frac{207\,e}{2}-e^2$  which turns out to be

2. Perimeter of rectangle = 2(e+a)=207 where a is the length of the

a quadratic Parabola: 2500 2000 1500



Compute the vertex  $rac{207}{4}$  and then plug the vertex into the area which will compute the maximum area.