2.

other edge of rectangle. Area of the rectangle is = e imes a.

Use perimeter equation and solve for a= $\frac{220-2e}{3}$

Then reformulate the area $E=e \times a=110e-e^2$ which turns out to be

2. Perimeter of rectangle = 2(e+a)=220 where a is the length of the

a quadratic Parabola: 3000 2500 2000 1500 1000 500 100 20

Compute the vertex $\frac{220}{4}$ and then plug the vertex into the area which will compute the maximum area.