other edge of rectangle. Area of the rectangle is = pimesa. Use perimeter equation and solve for $a = \frac{195-2p}{2}$

2. Perimeter of rectangle = 2(p+a)=195 where a is the length of the

Then reformulate the area $P = p \times a = \frac{195 p}{2} - p^2$ which turns out to be a quadratic Parabola: 2500 2000 1500 1000

500 20 40 60 80

Compute the vertex $rac{195}{4}$ and then plug the vertex into the area which will compute the maximum area.