2.

other edge of rectangle. Area of the rectangle is = kimesa.

2. Perimeter of rectangle = 2(k+a)=410 where a is the length of the

Use perimeter equation and solve for a=  $\frac{410-2k}{2}$  Then reformulate the area K= k×a = 205 k -  $k^2$  which turns out to be

a quadratic Parabola: 10000 8000 6000 4000 2000 100 150 200

Compute the vertex  $\frac{410}{4}$  and then plug the vertex into the area which will compute the maximum area.