2.

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

Use perimeter equation and solve for $a=\ \frac{180-2k}{2}$

Then reformulate the area $K = k \times a = 90 k - k^2$ which turns out to be

2. Perimeter of rectangle = 2(k+a)=180 where a is the length of the

a quadratic Parabola:

K
2000
1500
500

Compute the vertex $\frac{180}{4}$ and then plug the vertex into the area which will compute the maximum area.