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other edge of rectangle. Area of the rectangle is  $= k \times a$ .

Use perimeter equation and solve for  $a=\frac{275-2k}{2}$ 

4. Perimeter of rectangle = 2(k+a)=275 where a is the length of the

Then reformulate the area  $K = k \times a = \frac{275 k}{2} - k^2$  which turns out to be a quadratic Parabola: 

Compute the vertex  $\frac{275}{4}$  and then plug the vertex into the area which will compute the maximum area.