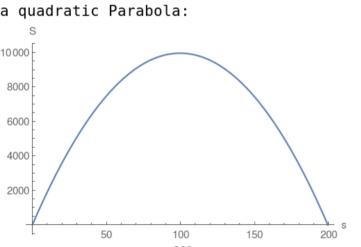
other edge of rectangle. Area of the rectangle is = s imes a. Use perimeter equation

2. Perimeter of rectangle = 2(s+a)=399 where a is the length of the

Then reformulate the area  $S = s \times a = \frac{399 \, s}{2} - s^2$  which turns out to be

and solve for a=  $\frac{399-2s}{2}$ 



Compute the vertex  $rac{399}{4}$  and then plug the vertex into the area which will compute the maximum area.