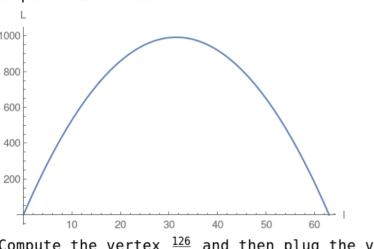
2.

other edge of rectangle. Area of the rectangle is = l imes a.

2. Perimeter of rectangle = 2(l+a)=126 where a is the length of the

Then reformulate the area L= l×a = 63 l-l<sup>2</sup> which turns out to be a quadratic Parabola:

L
1000



Use perimeter equation and solve for a=  $\frac{126-21}{2}$ 

Compute the vertex  $rac{126}{4}$  and then plug the vertex into the area which will compute the maximum area.