2.

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

Use perimeter equation and solve for  $a=\frac{206-2h}{2}$ 

Then reformulate the area  $H= h \times a = 103 h - h^2$  which turns out to be

2. Perimeter of rectangle = 2(h+a)=206 where a is the length of the

a quadratic Parabola: 2500 2000 1500 1000 500

Compute the vertex  $\frac{206}{4}$  and then plug the vertex into the area which will compute the maximum area.