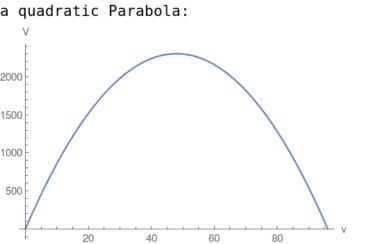
4. Perimeter of rectangle = 2(v+a)=192 where a is the length of the

Use perimeter equation and solve for a=  $\frac{192-2v}{2}$  Then reformulate the area V= v×a = 96 v -  $v^2$  which turns out to be

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



Compute the vertex  $\frac{192}{4}$  and then plug the vertex into the area which will compute the maximum area.