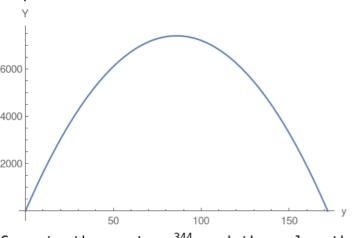
other edge of rectangle. Area of the rectangle is = yimesa.

2. Perimeter of rectangle = 2(y+a)=344 where a is the length of the

Then reformulate the area $Y = y \times a = 172 y - y^2$ which turns out to be



Use perimeter equation and solve for a= $\frac{344-2y}{2}$

a quadratic Parabola:

Compute the vertex $rac{344}{4}$ and then plug the vertex into the area which will compute the maximum area.