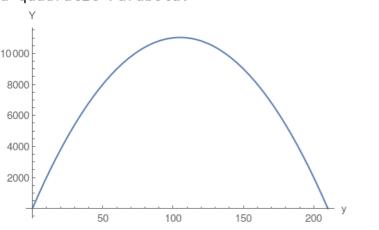
4. Perimeter of rectangle = 2(y+a)=420 where a is the length of the

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

a quadratic Parabola:

Then reformulate the area $Y = y \times a = 210 y - y^2$ which turns out to be



Use perimeter equation and solve for a= $\frac{420-2y}{2}$

Compute the vertex $rac{420}{4}$ and then plug the vertex into the area which will compute the maximum area.