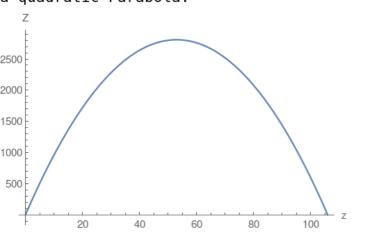
4. Perimeter of rectangle = 2(z+a)=212 where a is the length of the

Use perimeter equation and solve for a= $\frac{212-2z}{2}$ Then reformulate the area Z= $z \times a = 106 \ z - z^2$ which turns out to be a quadratic Parabola:

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



Compute the vertex $\frac{212}{4}$ and then plug the vertex into the area which will compute the maximum area.