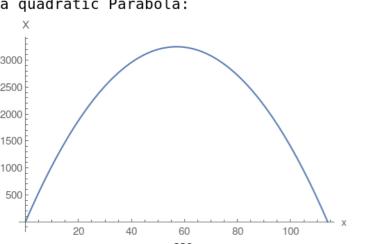
2. Perimeter of rectangle = 2(x+a)=228 where a is the length of the other edge of rectangle. Area of the rectangle is = ximesa. Use perimeter equation and solve for $a = \frac{228-2x}{3}$

Then reformulate the area $X = x \times a = 114 \times x \times x^2$ which turns out to be a quadratic Parabola: 3000 2500 2000



Compute the vertex $rac{228}{4}$ and then plug the vertex into the area which will compute the maximum area.