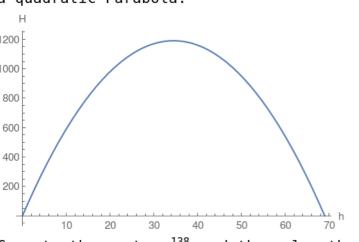
2. Perimeter of rectangle = 2(h+a)=138 where a is the length of the

other edge of rectangle. Area of the rectangle is = himesa. Use perimeter equation and solve for $a = \frac{138-2h}{2}$

Then reformulate the area $H= h \times a = 69 h - h^2$ which turns out to be

a quadratic Parabola: 1200 1000 800 600



Compute the vertex $rac{138}{4}$ and then plug the vertex into the area which will compute the maximum area.