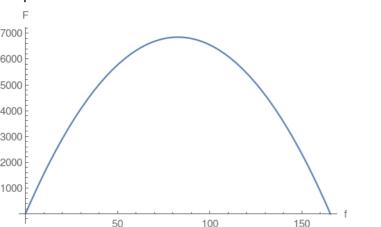
2.

other edge of rectangle. Area of the rectangle is = fimesa. Use perimeter equation

2. Perimeter of rectangle = 2(f+a)=331 where a is the length of the

Then reformulate the area $F = f \times a = \frac{331 \, f}{2} - f^2$ which turns out to be a quadratic Parabola:

and solve for a= $\frac{331-2f}{2}$



Compute the vertex $\frac{331}{4}$ and then plug the vertex into the area which will compute the maximum area.