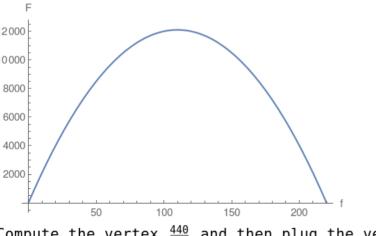
other edge of rectangle. Area of the rectangle is $= f \times a$.

2. Perimeter of rectangle = 2(f+a)=440 where a is the length of the

12000 10000

Then reformulate the area $F = f \times a = 220 f - f^2$ which turns out to be



Use perimeter equation and solve for $a = \frac{440-2f}{2}$

a quadratic Parabola:

Compute the vertex $rac{440}{4}$ and then plug the vertex into the area which will compute the maximum area.