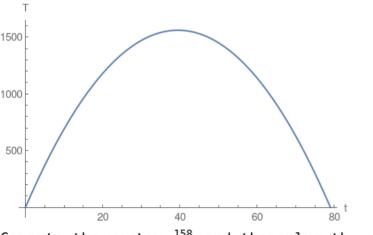
other edge of rectangle. Area of the rectangle is = timesa.

2. Perimeter of rectangle = 2(t+a)=158 where a is the length of the

1500

Then reformulate the area $T = t \times a = 79 t - t^2$ which turns out to be



Use perimeter equation and solve for a= $rac{158-2t}{2}$

a quadratic Parabola:

Compute the vertex $rac{158}{4}$ and then plug the vertex into the area which will compute the maximum area.