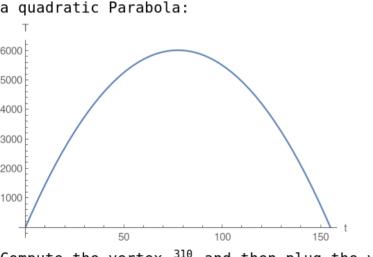
2.

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

2. Perimeter of rectangle = 2(t+a)=310 where a is the length of the

and solve for $a = \frac{310-2t}{2}$ Then reformulate the area $T = t \times a = 155 \ t - t^2$ which turns out to be



Use perimeter equation

Compute the vertex $\frac{310}{4}$ and then plug the vertex into the area which will compute the maximum area.