2.

Then reformulate the area $T = t \times a = 119 t - t^2$ which turns out to be

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

Use perimeter equation and solve for a= ^{238-2t}

a quadratic Parabola:

1500 1000 500

2. Perimeter of rectangle = 2(t+a)=238 where a is the length of the

3500 -3000 -2500 -2000 -

Compute the vertex $\frac{238}{4}$ and then plug the vertex into the area which will compute the maximum area.