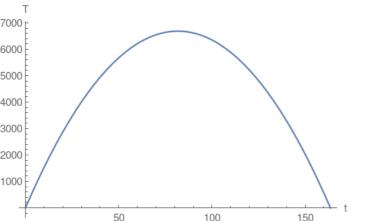
2.

other edge of rectangle. Area of the rectangle is = t×a. Use perimeter equation

2. Perimeter of rectangle = 2(t+a)=327 where a is the length of the

and solve for $a=\frac{327-2t}{2}$ Then reformulate the area $T=t\times a=\frac{327\,t}{2}-t^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{327}{4}$ and then plug the vertex into the area which will compute the maximum area.