

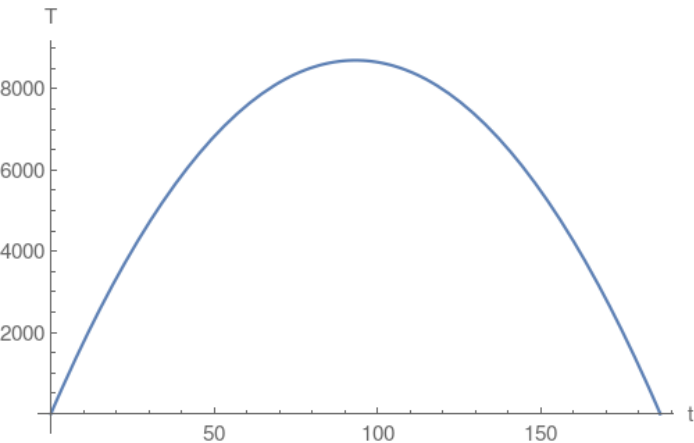
2.

2. Perimeter of rectangle = $2(t+a)=373$ where a is the length of the other edge of rectangle. Area of the rectangle is $= t \times a$.

Use perimeter equation

and solve for $a = \frac{373-2t}{2}$

Then reformulate the area $T = t \times a = \frac{373t}{2} - t^2$ which turns out to be a quadratic Parabola:



Compute the vertex $\frac{373}{4}$ and then plug the vertex into the area which will compute the maximum area.