length b and one side has length a:  $a+b+b=1595 \implies a=1595-2b$  the area:  $a+b+b=1595 \implies a=1595-2b$  the area:  $a+b+b=1595b=1595b-2b^2$ 

Square the unit for vertex's vertical coordinate since it is a quadratic.

Note that the formula is for parabola. Now compute the vertex:

 $vertex = (\frac{1595}{4} m , \frac{2544025}{9} m^2)$ 

Since the fences enclose a rectangular plot without one side, two sides have