$a+b+b=3695 \implies a=3695-2b$ the area:  $area=a\times b=(l-2b)b=3695b-2b^2$ 

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

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

Note that the equation is for parabola. Now compute the vertex:  $(\frac{3695}{4})$  feet ,  $\frac{13653025}{2}$  feet<sup>2</sup>

length b and one side has length a: