length b and one side has length a: a+b+b=2825 ⇒ a=2825-2b the area:

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 function is for parabola. Now compute the vertex:  $(\frac{2825}{4} \text{ m} , \frac{7980625}{9} \text{ m}^2)$ 

 $area=a \times b = (l-2b)b=2825b-2b^2$