the area: area=a×b=(l-2b)b= 4149b-2b<sup>2</sup>

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

Note that the equation is for parabola. Now find the vertex:

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

length b and one side has length a:

vertex=  $(\frac{4149}{4} \text{ meters }, \frac{17214201}{2} \text{ meters}^2)$ 

 $a+b+b=4149 \implies a=4149-2b$