$a_+b_+b_=4972\implies a_=4972_2b$  the area: area=a×b=(l-2b)b= 4972b-2b^2 Note that the equation is for parabola. Now find the vertex:

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

length b and one side has length a:

 $vertex = (1243 meters , 3090098 meters^2)$ 

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