$a+b+b=4188 \implies a=4188-2b$ the area: area=a \times b=(l-2b)b= 4188b-2b² Note that the formula 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:

 $vertex = (1047 m, 2192418 m^2)$

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