$a+b+b=2756 \implies a=2756-2b$ the area: area=a×b=(l-2b)b= 2756b-2b² Note that the function is for parabola. Now solve for the vertex:

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

length b and one side has length a:

 $vertex = (689 meters, 949442 meters^2)$

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