$a+b+b=4956 \implies a=4956-2b$ the area: area=a×b=(l-2b)b= 4956 b-2 b² 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:

 $vertex = (1239 feet , 3070242 feet^2)$

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