$a+b+b=4556 \implies a=4556-2b$ the area: $area=a\times b=(l-2b) b= 4556 b-2 b^2$

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

Note that the formula is for parabola. Now compute the vertex:

length b and one side has length a:

 $vertex = (1139 yards, 2594642 vards^2)$

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