$a+b+b=4580 \implies a=4580-2b$ the area: area=a×b=(l-2b)b= 4580b-2b² Note that the equation is for parabola. Now compute the vertex: vertex= (1145 yards , 2622050 yards²)

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

length b and one side has length a:

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