$a+b+b=1824 \implies a=1824-2b$ the area: area=a×b=(l-2b)b= 1824b-2b² Note that the equation 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:

 $vertex = (456 ft, 415872 ft^2)$

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