$a+b+b=4820 \implies a=4820-2b$ the area: area=a×b=(l-2b)b= 4820b-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:

 $vertex = (1205 \text{ yd}, 2904050 \text{ vd}^2)$

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