the area: area=a×b=(l-2b)b= 4925b-2b² Note that the formula 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:

 $a+b+b=4925 \implies a=4925-2b$

vertex= $(\frac{4925}{4} \text{ m}, \frac{24255625}{9} \text{ m}^2)$

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