the area: area=a×b=(l-2b)b= 1026b-2b²

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

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

length b and one side has length a:

 $a+b+b=1026 \implies a=1026-2b$

 $vertex = (\frac{513}{2} m , \frac{263169}{2} m^2)$

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