$a+b+b=1176 \implies a=1176-2b$ the area: $area=a\times b=(l-2b)b=1176b-2b^2$

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

Note that the equation is for parabola. Now solve for the vertex:

length b and one side has length a:

 $vertex = (294 m . 172872 m^2)$

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