$a+b+b=1775 \implies a=1775-2b$ the area: $area=a\times b=(l-2b)b=1775b-2b^2$

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

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

length b and one side has length a:

vertex= $(\frac{1775}{4} \text{ yards }, \frac{3150625}{9} \text{ yards}^2)$

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