the area: area=a×b=(l-2b)b= 2774b-2b²

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

Note that the function is for parabola. Now compute the vertex:

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

length b and one side has length a:

 $vertex = (\frac{1387}{2} feet , \frac{1923769}{2} feet^2)$

 $a+b+b=2774 \implies a=2774-2b$