$a+b+b=1993 \implies a=1993-2b$ the area:

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

 $area=a \times b = (l-2b)b = 1993b - 2b^2$

length b and one side has length a:

- Note that the function is for parabola. Now find the vertex:

- $vertex = (\frac{1993}{4} feet , \frac{3972049}{9} feet^2)$

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