$a+b+b=4938 \implies a=4938-2b$ the area:  $area=a\times b=(l-2b)b=4938b-2b^2$ 

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

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

length b and one side has length a:

vertex=  $(\frac{2469}{2} \text{ yards }, \frac{6095961}{2} \text{ yards}^2)$ 

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