$a+b+b=1200 \implies a=1200-2b$  the area:  $area=a\times b=(l-2b) b= 1200 b-2 b^2$ 

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

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

length b and one side has length a:

 $vertex = (300 ft, 180000 ft^2)$ 

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