Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a:  $a+b+b=2605 \implies a=2605-2b$ 

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

the area:  $area = a \times b = (l - 2b) b = 2605 b - 2 b^2$ 

vertex=  $(\frac{2605}{4} \text{ ft }, \frac{6786025}{9} \text{ ft}^2)$ 

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