- 2. Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a:  $a+b+b=3425 \implies a=3425-2b$
- $area = a \times b = (l 2b) b = 3425 b 2 b^2$

the area:

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

vertex=  $(\frac{3425}{4} \text{ yd }, \frac{11730625}{9} \text{ yd}^2)$ 

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