- 2. Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a: $a+b+b=4061 \implies a=4061-2b$
- the area: $area=a \times b = (l-2b)b = 4061b - 2b^2$

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

vertex= $(\frac{4061}{4}$ feet , $\frac{16491721}{9}$ feet²)

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