- 3. Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a: $a+b+b=4270 \implies a=4270-2b$ the area:
- $area=a \times b = (l-2b) b = 4270 b 2 b^2$ Note that the formula is for parabola. Now find the vertex:

- $vertex = (\frac{2135}{2} feet , \frac{4558225}{2} feet^2)$
- Square the unit for vertex's vertical coordinate since it is a quadratic.