- 3. Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a: $a+b+b=4791 \implies a=4791-2b$ the area:
- $area=a \times b = (l-2b)b=4791b-2b^2$

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

vertex= $(\frac{4791}{4}$ ft , $\frac{22953681}{9}$ ft²)

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