- 3. Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a: $a+b+b=4722 \implies a=4722-2b$ the area:
- $area=a \times b = (l-2b)b=4722b-2b^2$

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

vertex= $(\frac{2361}{2} \text{ m}, \frac{5574321}{2} \text{ m}^2)$

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