$a+b+b=3621 \implies a=3621-2b$ the area: $area=a \times b = (l-2b)b=3621b-2b^2$

4. Since the fences enclose a rectangular plot without one side, two sides have

Note that the formula is for parabola. Now compute the vertex: vertex= $(\frac{3621}{4} \text{ feet }, \frac{13111641}{9} \text{ feet}^2)$

length b and one side has length a:

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