$a+b+b=3590 \implies a=3590-2b$ the area: area=a×b=(l-2b)b= 3590b-2b²

length b and one side has length a:

vertex= $(\frac{1795}{2} \text{ yards }, \frac{3222025}{2} \text{ yards}^2)$

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

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

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