length b and one side has length a: $a+b+b=1242 \implies a=1242-2b$ the area: $a+b+b=1242 \implies 1242 \implies 2b^2$ area=a×b=(l-2b)b= 1242 b - 2b^2

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

vertex= $(\frac{621}{2} \text{ yards }, \frac{385641}{2} \text{ yards}^2)$

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

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