area=a×b=(l-2b)b= 1886 b - 2 b<sup>2</sup> Notice the Parabolic formula, solve for the vertex: vertex=  $(\frac{943}{2}$  yd ,  $\frac{889 \cdot 249}{2}$  yd<sup>2</sup> )

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

 $a+b+b=1886 \implies a=1886-2b$ Now solve for the area:

4. There are 3 sides to fence, two sides with length b and one side with length a: