area=a×b=(l-2b)b= 4866 b - 2 b² Notice the Parabolic formula, compute the vertex: vertex= ($\frac{2433}{2}$ meters , $\frac{5919489}{2}$ meters²)

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

 $a+b+b=4866 \implies a=4866-2b$ Now compute the area:

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