area=a×b=(l-2b)b= 1085 b - 2 b² Notice the Parabolic equation, find the vertex: vertex= $(\frac{1085}{4}$ m , $\frac{1177225}{9}$ m²)

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

 $a+b+b=1085 \implies a=1085-2b$ Now find the area:

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