area=a×b=(1-2b)b= 1535 b - 2 b² Notice the Parabolic function, compute the vertex: vertex= $(\frac{1535}{4}$ meters , $\frac{2356225}{2}$ meters²)

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

 $a+b+b=1535 \implies a=1535-2b$ Now compute the area:

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