area=a×b=(l-2b)b= 2990 b - 2 b² Notice the Parabolic formula, find the vertex: vertex= $(\frac{1495}{2}$ m , $\frac{2235025}{2}$ m²)

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

 $a+b+b=2990 \implies a=2990-2b$ Now find the area:

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