area=a×b=(l-2b)b= 1110 b - 2 b² Notice the Parabolic function, compute the vertex: vertex=  $(\frac{555}{2}$  m ,  $\frac{308\,025}{2}$  m²)

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

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

 $a+b+b=1110 \implies a=1110-2b$ Now compute the area: