area=a×b=(l-2b)b= 2605 b - 2 b<sup>2</sup> Notice the Parabolic equation, find the vertex:  $ext{vertex} = (\frac{2605}{4} \text{ m}, \frac{6786025}{2} \text{ m}^2)$ 

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

 $a+b+b=2605 \implies a=2605-2b$ Now find the area:

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