area=a×b=(l-2b)b= 3345b-2b<sup>2</sup> Notice the Parabolic equation, solve for the vertex: vertex=  $(\frac{3345}{4}$  yd ,  $\frac{11189025}{9}$  yd<sup>2</sup>)

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

 $a+b+b=3345 \implies a=3345-2b$ Now solve for the area:

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