area=a×b=(l-2b)b= 2681 b - 2 b² Notice the Parabolic function, solve for the vertex: vertex= $(\frac{2681}{4}$ yards , $\frac{7187761}{9}$ yards²)

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

 $a+b+b=2681 \implies a=2681-2b$ Now solve for the area:

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