area=a×b=(1-2b)b= 1534 b - 2 b² Notice the Parabolic equation, compute the vertex: vertex= $(\frac{767}{2}$ feet , $\frac{588289}{2}$ feet²)

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

 $a+b+b=1534 \implies a=1534-2b$ Now compute the area:

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