the area: area=a×b=(l-2b)b= 1382b-2b² Note that the function is for parabola. Now find the vertex:

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

length b and one side has length a:

vertex= $(\frac{691}{2}$ meters , $\frac{477481}{2}$ meters²)

 $a+b+b=1382 \implies a=1382-2b$

4. Since the fences enclose a rectangular plot without one side, two sides have