the area: area=a×b=(l-2b)b= 3618b-2b² Note that the function is for parabola. Now compute the vertex:

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

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

length b and one side has length a:

 $vertex = (\frac{1809}{2} meters , \frac{3272481}{2} meters^2)$

 $a+b+b=3618 \implies a=3618-2b$