2. Since the fences enclose a rectangular plot without one side, two sides have length b and one side has length a:

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

the area:

- $vertex = (\frac{749}{2} m , \frac{561001}{2} m^2)$
- Note that the function is for parabola. Now find the vertex:

$area=a \times b = (l-2b) b = 1498 b - 2 b^2$

 $a+b+b=1498 \implies a=1498-2b$