! .

Then reformulate the area $I=i \times a=208i-i^2$ which turns out to be

other edge of rectangle. Area of the rectangle is $= i \times a$.

Use perimeter equation and solve for $a = \frac{416-2i}{2}$

a quadratic Parabola:

2. Perimeter of rectangle = 2(i+a)=416 where a is the length of the

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Compute the vertex $\frac{416}{4}$ and then plug the vertex into the area which will compute the maximum area.