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

Use perimeter equation and solve for $a=rac{129-2u}{2}$

4. Perimeter of rectangle = 2(u+a)=129 where a is the length of the

Then reformulate the area $U=u\times a=\frac{129\,u}{2}-u^2$ which turns out to be a quadratic Parabola:

Compute the vertex $\frac{129}{4}$ and then plug the vertex into the area which will compute the maximum area.