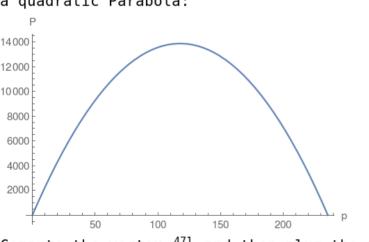
•

other edge of rectangle. Area of the rectangle is = p×a. Use perimeter equation

2. Perimeter of rectangle = 2(p+a)=471 where a is the length of the

Then reformulate the area $P=p\times a=\frac{471\,p}{2}-p^2$ which turns out to be a quadratic Parabola:

and solve for $a = \frac{471-2p}{2}$



Compute the vertex $\frac{471}{4}$ and then plug the vertex into the area which will compute the maximum area.