$$P(x,y) = x.y \Rightarrow P(x) = x(a-x) \Rightarrow P(x) = ax - x^2$$

$$\frac{dP(x)}{dx} =$$

$$Q - 2x = 0 \Rightarrow X = \frac{a}{a} \Rightarrow Y = \frac{a}{a}$$

$$2x + 2y = \ell \Rightarrow x + y = \frac{\ell}{a} \Rightarrow y = \frac{\ell}{a} - x$$

$$A(x,y)=x,y \Rightarrow A(x)=x\left[\frac{\rho}{2}-x\right] \Rightarrow A(x)=\frac{\rho}{2}\cdot x-x^2$$

$$\frac{d}{dx}(A(x))=0$$

$$\frac{\ell}{2} - 2x = 0 \Rightarrow X = \frac{\ell}{4} \Rightarrow Y = \frac{\ell}{4}$$

Seja a área:  

$$A(x,y) = \frac{x \cdot y}{2} \Rightarrow A(x) = \frac{x}{2}(2P - a - x) \Rightarrow A(x) = (P - \frac{a}{2}) \cdot x - \frac{x^2}{2}$$

- Logo;  

$$P-\frac{a}{2}-X=0=)$$
  $X=P-\frac{a}{2}=)$   $Y=P-\frac{a}{2}$