1)
$$A(0,0)$$
,

 $B(u,0)$,

 $C(u,v)$,

 $D(0,v)$
 $u,v > 0$
 $(u,v) \in f(x) = -x^3+\delta$
 $S = uv \rightarrow max$

$$S(u) = uv = u(-u^{3} + 8)$$

$$C(u, v)$$

$$D(0, v)$$

$$u, v > 0$$

$$(u, v) \in f(x) = -x^{3} + 8$$

$$S_{max} = 6\sqrt[3]{2}$$

2)
$$\frac{\chi^2}{a^2} \leftrightarrow \frac{y^2}{8^2} = 1$$

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$$\frac{u^2}{a^2} + \frac{v^2}{\theta^2} = 1 \implies v = \frac{1}{a} \sqrt{a^2 - u^2} \implies S(u) = 4u \cdot \frac{1}{a} \sqrt{a^2 - u^2}$$

$$S'(u) = \frac{46}{a} \left(\int_{0^{2}-u^{2}}^{2} + u \frac{-2u}{2 \int_{0^{2}-u^{2}}^{2}} \right) = \frac{46}{a} \cdot \frac{\alpha^{2}-2u^{2}}{\sqrt{a^{2}-u^{2}}}$$

$$\Rightarrow u = \frac{a}{\sqrt{2}} \quad v = \frac{b}{\sqrt{2}} \quad \Rightarrow \int s_{max} = 4uv = 2ab$$