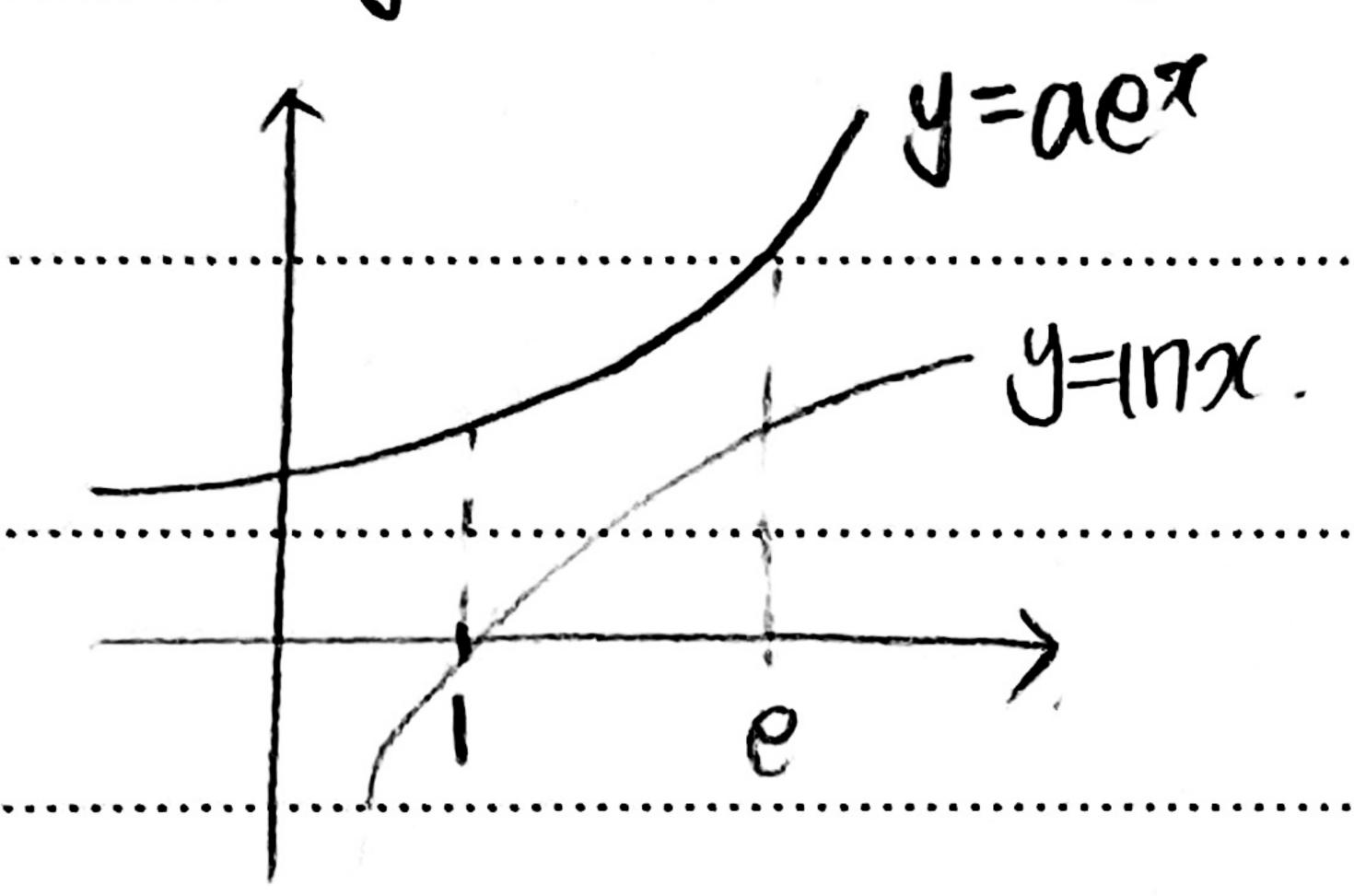
(2)
$$f(\alpha) = \int_{0}^{STDX} \sqrt{JHt^{2}} dtolD.$$
 $g(y) = \int_{3}^{29} f(\alpha) dx = 0$ $g''(\xi) = \frac{1}{2} \frac{1}{2}$

(2) 附生aea, 附四, x=e, 不空至 到似则 野皂 引用的小 0器型时 09 能是对时以



$$\int_{1}^{e} \alpha e^{\alpha} d\alpha = 2 \int_{1}^{e} \ln \alpha d\alpha$$
 oper.

$$\int_{1}^{e} \ln x \, dx = \left[x \ln x - x \right]_{1}^{e} = (e \ln e - e) - (o - 1) = 1$$

$$\int_{1}^{e} a e^{\alpha} d\alpha = \left[a e^{\alpha} \right]_{1}^{e} = 2 \int_{1}^{e} \ln x \, d\alpha = 2$$

$$ae^{e}-ae = ae(e^{e-1}-1)=2$$
 $a=\frac{2}{e(e^{e-1}-1)}$

(3) 10 211年12年 安徽地 台黎是 节阳叶.

$$\lim_{M\to 0+} \int_{M}^{2} x \ln x \, dx, \qquad \int x \ln x \, dx = \frac{1}{2} x^{2} \ln x - \int \frac{1}{2} x = \frac{1}{2} x^{2} \ln x - \frac{1}{4} x^{2} + C$$

$$\int_{M}^{2} \int_{M}^{2} x \ln x \, dx = \int_{M}^{2} \left[\frac{1}{2} g^{2} \ln x - \frac{1}{4} a^{2} \right]_{M}^{2} = \int_{M}^{2} \left(2 \ln 2 - 1 - \frac{1}{2} M^{2} \ln M + \frac{1}{4} M^{2} \right)$$

$$\lim_{M \to 0+} M^{2} \ln M = \lim_{M \to 0+} \frac{11}{1} \lim$$

WHAT I'M SCINX
$$dx = 21124 - \frac{1}{2} \lim_{M \to 0} M^2 INM = 2112 - \frac{1}{2} O ICH,$$