$$\frac{1}{100} \frac{1}{100} \frac{1}{100} = \left[ \sqrt{100} - \frac{1}{10} \times \frac{1}{100} \right] dx$$

$$\frac{1}{100} \frac{1}{100} = \left[ \sqrt{100} - \frac{1}{10} \times \frac{1}{100} \right] dx$$

$$\frac{1}{100} \frac{1}{100} = \left[ \sqrt{100} \times \frac{1}{100} + \frac{1}{100} \times \frac{1}{100} \right] dx$$

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$$\frac{1}{100} \frac{1}{100} = \left[ \sqrt{100} \times \frac{1}{100} + \frac{1}{100} \times \frac{1}{100} \right] dx$$

$$\frac{1}{100} \frac{1}{100} \times \frac{1}{100} = \left[ \sqrt{100} \times \frac{1}{100} + \frac{1}{100} \times \frac{1}{100} \right] dx$$

$$\frac{1}{100} \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} = \left[ \sqrt{100} \times \frac{1}{100} + \frac{1}{100} \times \frac{1}{100} \right] dx$$

$$\frac{1}{100} \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} = \left[ \sqrt{100} \times \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} \times \frac{1}{100} \right] dx$$

$$\frac{1}{100} \frac{1}{100} \times \frac{1}{100}$$

(3) 
$$y = e^{x}, y = e^{-x} = 5 \times = 1$$
  
 $S = \int_{0}^{1} (e^{x} - e^{-x}) dx = e + e^{-x}$   
 $S = \int_{0}^{1} (e^{x} - e^{-x}) dx = e + e^{-x}$ 

3. y=-x74x-3及其在点(0,-3)和(3,0)处的切线

$$f(x) = -x^{2} + 4x - 3.$$

$$t_{0} = -x^{2} + 4x - 3.$$

$$t_{0} = -24, \quad f'(x) = 10, \quad y = 10x + 6$$

$$t_{0} = -2x + 6$$

$$t_{0} = -2x + 6$$

:- by,与tro交牙(10,6), tri与x轴至于一量 设切点、AB, SAABD = (3+3)·(6+24)x = 54 又AB = y+b = = 4x-3, y=4x-912 抛物线与AB国成面织口S

$$\Delta S = \int_{-3}^{3} -x^{2}+4x-3-4x+12 = \int_{-3}^{3} -x^{2}+9.$$

$$\begin{aligned} &= & \left[ -\frac{1}{3} \times^3 + 9 \times \right] \frac{3}{3} = & -9 + 27 - 9 + 27 = \frac{36}{36} \\ &= & S_{AABD} - \Delta S = & 18. \end{aligned}$$

$$S = S_{4ABD} - \Delta S = 18$$
.  
 $C \cdot y^2 = 2P \times$  A (P, P). A处法 技  $t = y = -x + \frac{2}{2}P$   
 $\Delta S = (x_2 - x_1)\Delta y$   $2 - x_2 = 36$ 

$$S = \int_{-3p}^{p} \left( \frac{3}{2} p - y - \frac{y^{2}}{2p} \right) dy$$

$$= \int_{-3p}^{3p} \left( \frac{3}{2} p - y - \frac{y^{2}}{2p} \right) dy$$

=[=py--1y--1]==[=p---2p]==

は、 
$$S = \int_{t_1}^{t_2} \times \frac{dy}{dt} dt = \frac{1}{2} \int_{t_1}^{t_2} \times dy + \frac{1}{2} \left[ \times y \right]_{t_1}^{t_2} \int_{t_1}^{t_2} y dx \right]$$

書 曲級 讯告、  $Q_1 \times y \Big|_{t_1}^{t_2} = \int_{t_1}^{t_2} \times dy + \frac{1}{2} \left[ \times y \right]_{t_1}^{t_2} \int_{t_1}^{t_2} y dx \right]$ 

書 曲級 讯告、  $Q_1 \times y \Big|_{t_1}^{t_2} = \int_{t_1}^{t_2} y \int_{t_1}^{t_2} (x \frac{dy}{dt} - y \frac{dx}{dt}) dt$ .

ERIMA 就子 b. (1)

$$\begin{cases} x = a \cos^2 t \\ y = a \sin^2 t \end{cases} & |x = -3a \sin t \cos t t \\ y = 3a \cos t \sin^2 t \end{cases}$$

$$\begin{cases} x = -3a \cos^2 t \cdot 3a \cos t \sin^2 t + a \sin^2 t \cdot 3a \sin t \cos t \end{cases} dt$$

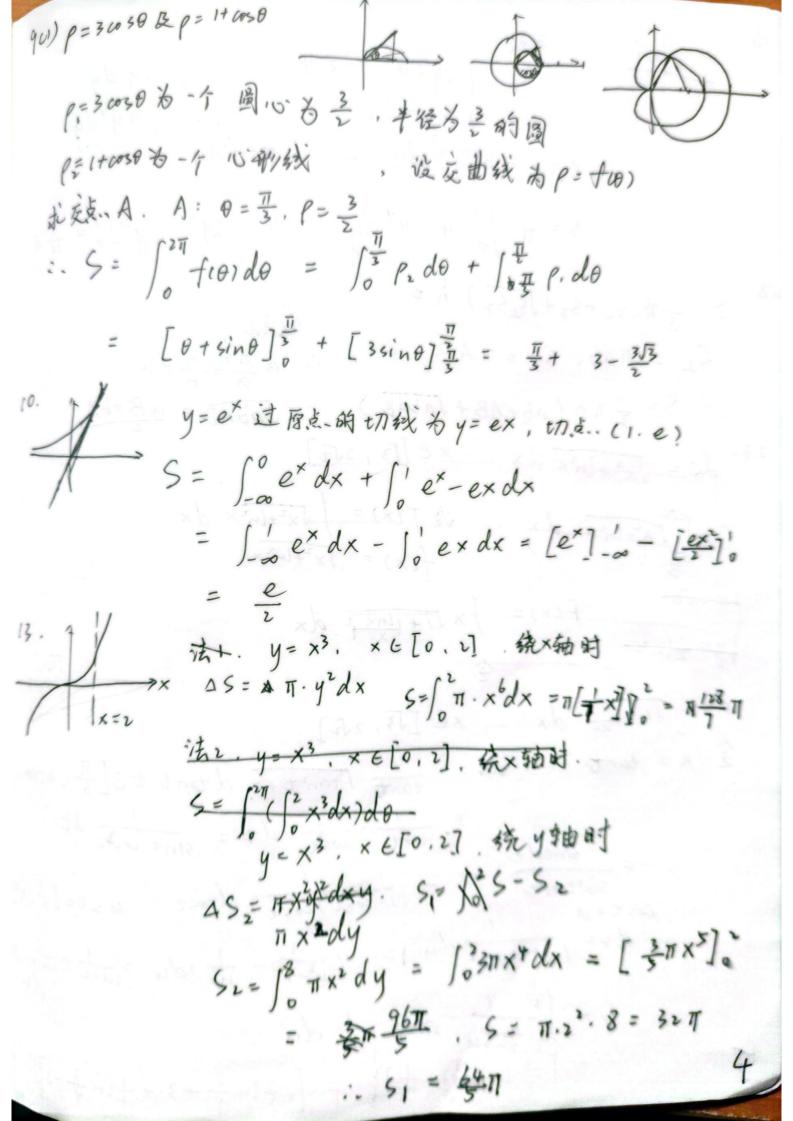
$$= \frac{1}{2} \int_{0}^{2} \frac{2\pi}{a^2} \cos^2 t \sin^2 t \right) dt$$

$$= \frac{3}{4} a^2 \int_{0}^{4\pi} \frac{1 + \cos x}{2} \frac{1 - \cos x}{2} t dx t$$

$$= \frac{3a^2}{2} \int_{0}^{2\pi} (-\frac{1 + \cos x}{2} t) dt$$

$$= \frac{3}{4} a^2 \int_{0}^{4\pi} \frac{1 + \cos x}{2} \frac{1 - \cos x}{2} t dx t$$

$$= \frac{3a^2}{2} \left[ \frac{1}{4} \frac{x}{4} t \right]_{0}^{2\pi} = \frac{3}{8} a^2 \pi$$



26. if 
$$\hat{A} = \hat{A} + \hat{A} +$$