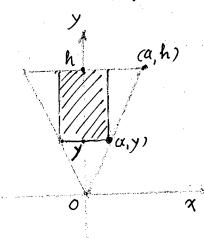
P.209.9. 在的线 y'=4x上, 求到点(18,0)的距离最短流息之如,20-98.

$$d^2 = (x-18)^2 + y^2 = (x-18)^2 + 4x$$

$$(18,0) \qquad \chi \qquad (d^2)_{\chi}' = 2(\chi - 18) + 4 = 2(\chi - 16)$$

$$\int_{3}^{3} (d^{2})_{x}^{2} = 0 \quad \int_{3}^{3} \chi = 16 \quad \int_{3}^{2} \int_{3}^{3} \chi = 16 \quad \int_{3}^{3} \int_{3}^{3} \chi = 16$$

P.207.10 求内接于一次唱链体,且可有最大体积而正图核心态度。



$$(a,h)$$
 福·如图, \sqrt{g} 能 $=\frac{1}{3}\pi a^2 h$ $y = \frac{h}{a} \chi$

$$V_{\text{g}} = \pi x^2 (h-y) = \pi x^2 (h-\frac{h}{a} x) = \pi h x^2 (1-\frac{x}{a})$$

$$V(\alpha) = \pi h \left[2x(1-\frac{\alpha}{a}) + \chi^2 \cdot (-\frac{1}{a}) \right]$$

$$= \pi h \chi \left(2 - \frac{2\chi}{a} - \frac{\chi}{a} \right) = \pi h \chi \left(2 - \frac{3\chi}{a} \right)$$

$$\sqrt{2} \ v(x) = 0 \quad \stackrel{\cancel{Y}}{\cancel{4}} \ \chi = 0 \quad \stackrel{\cancel{A}}{\cancel{4}}$$

$$2 - \frac{3\chi}{a} = 0, \quad \chi = \frac{2a}{3}.$$

國祖
$$H = h - y = h - \frac{h}{a} \cdot \frac{2a}{3} = h - \frac{2h}{3} = \frac{h}{3}$$