中山大學本科生考试草稿纸如分子

警示 《中山大学授予学士学位工作细则》第七条:"考试作弊者不授予学士学位。"

P95.6 设
$$y = \frac{2}{\chi-1}$$
 (x # 1) 计算 x 由 3 到 3 の 1 可, 函数的 ay 5 dy。

$$\begin{array}{ll} \overrightarrow{HA}: & \Delta y = f(3,001) - f(3) = \frac{2}{3.001 - 1} - \frac{2}{3-1} = \frac{2}{2.001} - 1 = \frac{20.001}{2.001} \\ &= 0.991 - 1 = -0.001 \end{array}$$

$$y' = -\frac{2}{(x-1)^2}$$
, $dy = -\frac{2dx}{(x-1)^2}$
 $dy |_{x=3} = -\frac{2}{4} \times 0.001 = \frac{-0.001}{2}$

P.95.7 计算与32.16 知近似值。

$$\frac{1}{1+\frac{2}{4}}: i\frac{\pi}{2} f(x) = \frac{1}{5} \cdot \frac{1}{5\sqrt{4}}$$

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$$f(x)$$

P.95.8 求场的社会的学的产品工业学教

(1)
$$\chi^{\frac{2}{3}} + y^{\frac{2}{3}} = \alpha^{\frac{2}{3}}$$
 (0,0)
 $\chi^{\frac{2}{3}} + y^{\frac{2}{3}} = \alpha^{\frac{2}{3}}$ (0,0)

(2)
$$(x-a)^2 + (y-b)^2 = C^2$$

$$7\frac{3}{164}: d(x-a)^2 + d(y-b)^2 = 0 \implies 2(x-a)dx + 2(y-b)dy = 0 \implies \frac{dy}{dx} = \frac{x-a}{y-b} = \frac{a-x}{y-b}.$$

(3)
$$actom \frac{y}{x} = b_1 \sqrt{x^2 + y^2}$$

The content
$$\frac{y}{x} = \frac{1}{2} \ln(x^2 + y^2)$$

$$\frac{1}{1 + (\frac{y}{x})^2} d(\frac{y}{x}) = \frac{1}{2} \cdot \frac{1}{x^2 + y^2} d(x^2 + y^2)$$

$$\frac{1}{1 + (\frac{y}{x})^2} \cdot \frac{x dy - y dx}{x^2} = \frac{1}{2} \cdot \frac{1}{x^2 + y^2} 2(x dx + y dy) \implies x dy - y dx = x dx + y dx$$

$$\frac{dy}{dx} = \frac{x + y}{x - y}.$$