中山大學本科生考试草稿纸如常-103.



【《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。"

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$$y = x + \frac{1}{x}$$
 , $(-\infty, 0) \cup (0, +\infty)$

說:
$$y' = 1 - \frac{1}{\chi^2} = \frac{\chi^2 - 1}{\chi^2} = \frac{CC - 1)(\chi + 1)}{\chi^2}$$
, $\{y' = 0, 3it \chi = -1, \chi = 1.$

$$y'' = (4)(-2) \cdot \frac{1}{\chi^3} = \frac{2}{\chi^3}$$

$$a = \lim_{x \to +\infty} \frac{f(x)}{x} = \lim_{x \to +\infty} \frac{x + \frac{1}{x}}{x} = \lim_{x \to +\infty} (1 + \frac{1}{x^2}) = 1$$

$$b = \lim_{x \to +\infty} [f(x) - \alpha x] = \lim_{x \to +\infty} (x + \frac{1}{x} - x) = \lim_{x \to +\infty} \frac{1}{x} = 0$$

$$\begin{cases} \lim_{\chi \to 0^{-}} y = \lim_{\chi \to 0^{-}} (\chi + \frac{1}{\chi}) = -\infty \end{cases}$$

$$\lim_{x\to 0+0} y = \lim_{x\to 0+0} (x+\frac{1}{x}) = +\infty$$

$$\lim_{x \to +\infty} y = \lim_{x \to +\infty} \frac{x^2 - 1}{x} = +\infty$$

$$\lim_{\gamma \to -\infty} y = \lim_{\gamma \to -\infty} \frac{\gamma^2 - 1}{\gamma} = -\infty$$

$$\vec{z}_{1}$$
 \hat{z}_{2} \hat{z}_{1} \hat{z}_{2} \hat{z}_{1} \hat{z}_{2} \hat{z}_{1} \hat{z}_{2} \hat{z}_{1} \hat{z}_{2} \hat{z}_{2} \hat{z}_{2}

