Assignment: AP CALCULUS BC (Limit and Continuity)

Part A—The use of a calculator is not allowed.

Find the limits of the following:

1.
$$\lim_{\kappa \to 0} (\kappa - 5) \cos \kappa$$

2. If
$$b \neq 0$$
, evaluate $\lim_{\kappa \to b} \frac{\kappa^3 - b^3}{\kappa^6 - b^6}$.

3.
$$\lim_{x\to 0} \frac{2-\sqrt{4-x}}{x}$$

4.
$$\lim_{x \to \infty} \frac{5 - 6x}{2x + 11}$$

5.
$$\lim_{x \to -\infty} \frac{x^2 + 2x - 3}{x^3 + 2x^2}$$

6.
$$\lim_{x \to \infty} \frac{3x^2}{5x + 8}$$

7.
$$\lim_{x\to\infty} \frac{3x}{\sqrt{x^2-4}}$$

8. If
$$f(x) = \begin{cases} e^x & \text{for } 0 \le x < 1 \\ x^2 e^x & \text{for } 1 \le x \le 5 \end{cases}$$
, find $\lim_{x \to 1} f(x)$.

9.
$$\lim_{x \to \infty} \frac{e^x}{1 - x^5}$$

10.
$$\lim_{x\to 0} \frac{\sin 3x}{\sin 4x}$$

11.
$$\lim_{x\to 3^+} \frac{\sqrt{r^2-9}}{r-3}$$

1.
$$\lim_{x \to 4^{-}} f(x) = 5$$
.
II. $\lim_{x \to 4^{-}} f(x) = 2$.

II.
$$\lim_{x \to 4} f(x) = 2$$
.

III.
$$x=4$$
 is not in the domain of f .

Part B-Calculators are allowed.

Find the horizontal and vertical asymptotes of the graph of the function

$$f(x) = \frac{1}{x^2 + x - 2}.$$

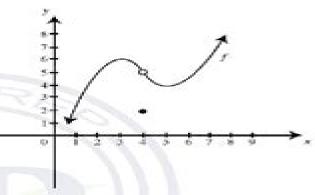


Figure 5.5-1

- 14. Find the limit: $\lim_{x \to \infty} \frac{5 + [x]}{5 x}$ when [x] is the greatest inneger of ac-
- 15. Find the points of discontinuity of the function $f(x) = \frac{x+1}{x^2 + 4x - 12}$.
- 16. For what value of k is the function $g(x) = \begin{cases} x^2 + 5, & x \le 3 \\ 2x - k, & x > 3 \end{cases}$ continuous at
- Determine if $f(x) = \begin{cases} \frac{x^2 + 5x - 14}{x - 2}, & \text{if } x \neq 2 \\ 12, & \text{if } y = 1 \end{cases}$

is continuous at x = 2. Explain why or why meet.

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