

1.10 Types of Discontinuities

Calculus

Solutions

Practice

For each function identify the type of each discontinuity and where it is located.

1. $f(x) = \frac{x}{x+1} = 0$

V.A. at $x = -1$

2. $f(x) = \frac{x^2}{x^2+3x} = \frac{x}{x+3}$

hole at $x = 0$

V.A. at $x = -3$

3. $f(x) = x^3 - 4x$

Continuous function

(no discontinuities)

4. $f(x) = \frac{x^2+2x-3}{x+3}$
 $\frac{(x+3)(x-1)}{x+3}$

hole at $x = -3$

5. $f(x) = \frac{x+2}{x^2-2x-8}$
 $\frac{x+2}{(x+2)(x-4)}$

hole at $x = -2$

V.A. at $x = 4$

6. $f(x) = \sec 2x$ for $0 \leq x \leq 2\pi$ V.A. at
 $\frac{1}{\cos 2x} \rightarrow = 0$

$2x = \frac{\pi}{2}$ $2x = \frac{3\pi}{2}$ $2x = \frac{5\pi}{2}$
 $x = \frac{\pi}{4}$ $x = \frac{3\pi}{4}$ $x = \frac{5\pi}{4}$

$2x = \frac{7\pi}{2}$ $2x = \frac{9\pi}{2}$
 $x = \frac{7\pi}{4}$ $x = \frac{9\pi}{4}$

7. $f(x) = \frac{x-5}{x^2-7x+10} = \frac{x-5}{(x-5)(x-2)}$

hole at $x = 5$

V.A. at $x = 2$

8. $f(x) = \frac{2x}{2x-5} = 0$
 $2x = 5$
 $x = \frac{5}{2}$

V.A. at $x = \frac{5}{2}$

9. $f(x) = \frac{5x+5}{3}$

Continuous Function

10. $f(x) = \frac{x-1}{x^2+3x-4}$

$\frac{x-1}{(x-1)(x+4)}$

hole at $x = 1$

V.A. at $x = -4$

11. $f(x) = \frac{x^2-16}{x-4}$
 $\frac{(x-4)(x+4)}{x-4}$

hole at $x = 4$

12. $f(x) = \csc\left(\frac{x}{2}\right)$ for $0 \leq x \leq 2\pi$ V.A. at
 $\frac{1}{\sin(\frac{x}{2})} \rightarrow = 0$

$\frac{x}{2} = 0$ $\frac{x}{2} = \pi$ $\frac{x}{2} = 2\pi$
 $x = 0$ $x = 2\pi$ $x = 4\pi$

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