

# LIMITS AND CONTINUITY

**A.**

- $\lim_{x \rightarrow 2} (6x^4 - 3x^3 + 4x^2 - 5)$
- $\lim_{x \rightarrow 2} \frac{4x^3 - 3x^2 + 2x + 7}{x^2 + 5x^2 - 2}$

**B.**

- $\lim_{x \rightarrow 3} \frac{2x^2 + 9x - 18}{x + 6}$
- $\lim_{x \rightarrow 2} \frac{x^3 - 8}{x - 2}$
- $\lim_{x \rightarrow 2} \frac{x^3 - x^2 - x - 2}{2x^3 - 5x^2 + 5x - 6}$

**4.**  $\lim_{x \rightarrow 2} \frac{x - 2}{\sqrt{x^2} - 4}$

**5.**  $\lim_{y \rightarrow 0} \frac{\sqrt{k+y} - \sqrt{k}}{y}$

**C.**

- $\lim_{x \rightarrow 1} \frac{3x^4 - 15x^3 + 12x^2 - 3x + 1}{5x^2 - x^3 + 4x^3 + 2x^2 - 11}$
- $\lim_{x \rightarrow 1} \frac{6x^2 - 14x^4 + 8x^3 - 5x^4 + 7x^2}{12x^3 - 17x^2 + 12x^4 + 4x^3 - 2}$

$f(a) \neq \lim_{x \rightarrow a} f(x)$  or else  $f(a)$  does not exist.

- **Essential Discontinuity** - If  $f$  is redefined at  $a$  such that  $f(a) = \lim_{x \rightarrow a} f(x)$ , then the new function becomes continuous at  $a$ .

### ILLUSTRATION:



Continuity versus Removable & Essential Discontinuity

Conditions	$f$	$f$	$f$
1. Continuity	✓	✓	✓
2. Removable Discontinuity	✓	✓	✓
Essential Discontinuity	✓	✓	✓

## Removable Discontinuity

- The function  $f(x)$  has a removable discontinuity at  $a$  if  $\lim_{x \rightarrow a} f(x)$  exists, but  $f(a)$  does not exist or  $f(a) \neq \lim_{x \rightarrow a} f(x)$ .
- Examples:
  - $f(x) = \frac{x^2 - 1}{x - 1}$
  - $f(x) = \frac{x^2 - 1}{x^2 + 1}$
  - $f(x) = \frac{x^2 - 1}{x^2 + 1} + 1$

## Essential Discontinuity

- Removable Discontinuity:  $\lim_{x \rightarrow a} f(x)$  exists, but  $f(a)$  does not exist or  $f(a) \neq \lim_{x \rightarrow a} f(x)$ .
- Essential Discontinuity:  $\lim_{x \rightarrow a} f(x)$  does not exist.

## Essential Discontinuity

1.  $\lim_{x \rightarrow a} f(x)$  does not exist.

2.  $\lim_{x \rightarrow a} f(x) = \infty$  or  $-\infty$ .

3.  $\lim_{x \rightarrow a} f(x) = L$  but  $f(a) \neq L$ .

4.  $\lim_{x \rightarrow a} f(x)$  does not exist.

5.  $\lim_{x \rightarrow a} f(x) = \infty$  or  $-\infty$ .

6.  $\lim_{x \rightarrow a} f(x) = L$  but  $f(a) \neq L$ .

7.  $\lim_{x \rightarrow a} f(x)$  does not exist.

# Limits And Continuity Calculus With Answers Mcsas

**JG Myers**



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