



Limits Quiz

1. Evaluate: $\lim_{x \rightarrow 2} 2004$

A 0

B 2004

C 2

D The limit does not exist.

E None of the above.

2. Evaluate: $\lim_{k \rightarrow 0} |k|$

A 0

B -1

C 1

D The limit does not exist.

E None of the above.

3. Evaluate: $\lim_{x \rightarrow 4} \frac{x^2 + x - 20}{x - 4}$

A -9

B 1

C 9

D The limit does not exist.

E None of the above.

4. Evaluate: $\lim_{x \rightarrow 2} \left(\frac{1}{x-2} - \frac{4}{x^2-4} \right)$

A $\frac{1}{4}$

B -1

C 4

D The limit does not exist.

E None of the above.

5. Evaluate: $\lim_{x \rightarrow 1} \frac{x^4 + 3x^3 - 13x^2 - 27x + 36}{x^2 + 3x - 4}$

A -1

B 1

C 8

D The limit does not exist.

E None of the above.

6. Evaluate: $\lim_{x \rightarrow 3} \frac{x^3 - x^2 - x - 15}{2x - 6}$

A 20

B 10

C 0

D The limit does not exist.

E None of the above.



7. Evaluate: $\lim_{x \rightarrow 0} \frac{|x|}{x}$

A 0

B 1

C -1

D The limit does not exist.

E None of the above.

8. Evaluate: $\lim_{x \rightarrow 0} \frac{\sqrt{x^2 + 9} - 5}{x^2 - 4x}$

A 1

B 0

C -2

D The limit does not exist.

E None of the above.

9. Evaluate: $\lim_{x \rightarrow 2} (3x^3 - 5x^2 + 2x - 11)$

A 0

B -3

C 109

D The limit does not exist.

E None of the above.

10. Evaluate: $\lim_{x \rightarrow 0} \frac{\sqrt{x+3} - \sqrt{x}}{x}$

A $\frac{\sqrt{3}}{2}$

B 0

C $\frac{\sqrt{3}}{2}$

D 1

E None of the above.

11. Evaluate: $\lim_{m \rightarrow 0} \frac{5m^2 - 4}{m + 1}$

A 4

B -4

C 0

D The limit does not exist.

E None of the above.

12. Evaluate: $\lim_{x \rightarrow -2} \frac{4 - x^2}{x + 2}$

A -1

B -4

C 1

D 4

E None of the above.



13. Evaluate: $\lim_{x \rightarrow 4} \frac{\sqrt{x^2 + 9} - 5}{x^2 - 4x}$

- A** $\frac{1}{10}$
- B** 0
- C** 10

- D** The limit does not exist.
- E** None of the above.

14. Evaluate: $\lim_{x \rightarrow 4} \frac{x - \sqrt{x} - 2}{x - 4}$

- A** 0
- B** $\frac{3}{4}$
- C** $\frac{4}{3}$

- D** The limit does not exist.
- E** None of the above.

15. Evaluate: $\lim_{x \rightarrow 2} \frac{2x^4 - 7x^2 + x - 6}{x - 2}$

- A** 37
- B** -1
- C** 0

- D** The limit does not exist.
- E** None of the above.

16. Evaluate: $\lim_{x \rightarrow 8} \frac{8 - x}{\sqrt[3]{x} - 2}$

- A** 12
- B** 0
- C** -12

- D** The limit does not exist.
- E** None of the above.

17. Evaluate: $\lim_{x \rightarrow 2} \frac{\sqrt{6 - x} - 2}{\sqrt{3 - x} - 1}$

- A** $\frac{1}{2}$
- B** 1
- C** 0

- D** The limit does not exist.
- E** None of the above.

SOLUTIONS

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|-------|-------|-------|-------|-------|
| 1. B | 2. A | 3. C | 4. A | 5. E |
| 6. B | 7. D | 8. D | 9. B | 10. E |
| 11. B | 12. D | 13. E | 14. B | 15. A |
| 16. C | 17. A | | | |

