

Directions: Select the letter of the correct answer for each item below.

1) Evaluate $\lim_{x \rightarrow -3} 2x^2 + 3x - 1$

- (a) 2
- (b) 4
- (c) 6
- (d) 8

2) Evaluate $\lim_{x \rightarrow 2} \frac{x^2 - 4x + 4}{x - 2}$

- (a) 1
- (b) 0
- (c) -1
- (d) Limit does not exist

3) Consider the function $f(x) = \frac{7}{x}$. Which of the following is true?

- a) If the value of x tends to reach 0 from the right, the value of $f(x)$ becomes smaller and smaller without bounds.
- b) If the value of x tends to reach 0 from the left, the value of $f(x)$ becomes smaller and smaller without bounds
- c) The limit of the function as x approaches 0 is equal to $f(0)$.
- d) None of the above is true

4) Determine the limit of $3 - \frac{1}{5}x^2$ as the value of x approaches 1.

- (a) $14/5$
- (b) $12/5$
- (c) 2
- (d) Limit does not exist

5) Evaluate $\lim_{x \rightarrow -5} \frac{25 - x^2}{x + 5}$

- (a) 0



Limits

Practice Questions

- (b) 10
- (c) -10
- (d) Limit does not exist



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