11 Lecture - MTH101

Important Mcqs

What is the limit of f(x) as x approaches 2 if f(x) = x^2 - 3x + 2?
 A. 1
 B. 2
 C. 3
 D. 4
 Answer: D. 4

2. What is the limit of g(x) as x approaches 0 if g(x) = sin(x)/x?
A. 0

B. 1 C. -1 D. Does not exist Answer: B. 1

What is the limit of h(x) as x approaches infinity if h(x) = 5/x?
 A. 0

- B. 5C. infinityD. Does not exist
- Answer: A. 0

4. What is the limit of j(x) as x approaches 1 if $j(x) = (x - 1)/(x^2 - 1)$?

A. 0 B. 1 C. -1 D. Does not exist **Answer: B. 1**

5. What is the limit of k(x) as x approaches infinity if k(x) = (3x - 2)/(4x + 1)?

A. 3/4 B. 2/3 C. 3/1 D. Does not exist **Answer: A. 3/4** 6. What is the limit of f(x) as x approaches 0 if f(x) = (2x + 1)/(x - 3)? A. 1/3

B. 2/3
C. -1/3
D. Does not exist
Answer: D. Does not exist

7. What is the limit of g(x) as x approaches 2 if g(x) = (x^2 - 4)/(x - 2)?
A. 0
B. 1
C. 2
D. Does not exist
Answer: C. 2

8. What is the limit of h(x) as x approaches 3 if h(x) = sqrt(x - 3)?
 A. 0

B. 1
C. 3
D. Does not exist
Answer: D. Does not exist

9. What is the limit of j(x) as x approaches infinity if j(x) = e^(-2x)?
A. 0
B. 1
C. -1
D. Does not exist
Answer: A. 0

10. What is the limit of k(x) as x approaches 1 if $k(x) = (x - 1)^2/|x - 1|$?

A. 0
B. 1
C. Does not exist
D. infinity
Answer: C. Does not exist