9 Lecture - MTH101

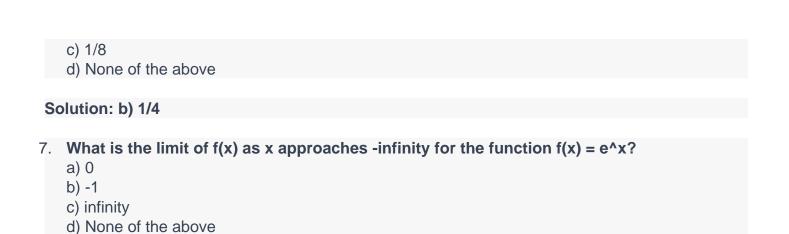
Important Mcqs

1. What is the limit of f(x) as x approaches 3 for the function f(x) = x + 2?

a) 3b) 5c) 6

a) 1/12b) 1/4

	u) Notice of the above
Solution: b) 5	
2.	What is the limit of f(x) as x approaches infinity for the function f(x) = 1/x? a) 0 b) 1 c) infinity d) None of the above
C	
Solution: a) 0	
3.	What is the limit of f(x) as x approaches 2 for the function f(x) = (x-2)/(x+4)? a) 2 b) 0 c) 1 d) None of the above
Solution: b) 0	
4.	What is the limit of f(x) as x approaches -3 for the function f(x) = x+3 ? a) -3 b) 0 c) 3 d) None of the above
Solution: c) 3	
5.	What is the limit of f(x) as x approaches 0 for the function f(x) = sin(x)/x? a) 1 b) 0 c) -1 d) None of the above
0	alutions a) 4
Solution: a) 1	
6	What is the limit of $f(x)$ as x approaches 4 for the function $f(x) = (x-4)/(x^2-16)$?



Solution: a) 0

- 8. What is the limit of f(x) as x approaches 1 for the function $f(x) = (x-1)/(x^2-1)$?
 - a) -1/2
 - b) 1/2
 - c) 1
 - d) None of the above

Solution: b) 1/2

- 9. What is the limit of f(x) as x approaches 2 for the function $f(x) = (x^2-4)/(x-2)$?
 - a) 2
 - b) 0
 - c) 4
 - d) None of the above

Solution: c) 4

- 10. What is the limit of f(x) as x approaches 0 for the function $f(x) = \frac{1-\cos(x)}{x^2}$?
 - a) 0
 - b) 1/2
 - c) infinity
 - d) None of the above

Solution: b) 1/2