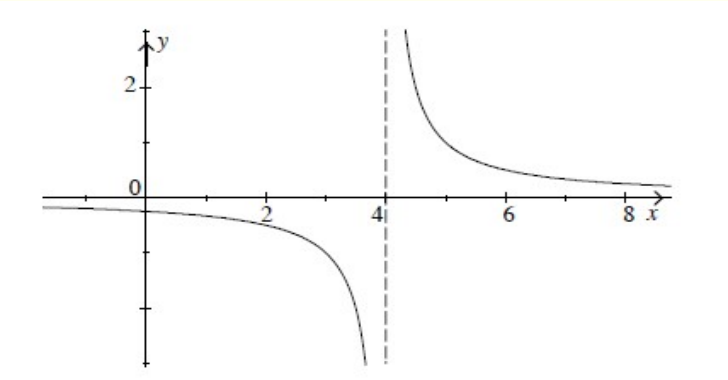
Subject: Calculus

Question Bank

No.	Question Bank	ANS
1.	If $y = 3x^2 + 2x + 5$ then the value of dy /dx at x=1 is (A) 8 (B) 0 (C) 2 (D) not defined	**A**
2.	find y in the $e^{1-3y} = 1$ equation (A) 3 (B) 0 (C) 1/3 (D) not defined	**C**
3.	Given c > d , Determine which of the following are true or false: (A) -3 c < - 3d (B) c/d < d/c (C) d2 > c2	**B**
4.	Solve the following inequalities: 1) | 7-2x| < 1 2) x2+x-1≤ 5	
5.	Find the domain and the range of the following  Domain ={x: x≠4} Range = {y: y≠0}	
6.	calculate the $\ln(\sqrt{e})$ A) 1 B) 1/2 C)0	C
7.	calculate the $e^{-\ln x}$ A) -x B) 1/x C) x	B
8.	find y' in the function $y = e^x + 2x$ $y' = e^x + 2$	
9.	Find f_x if $y' = x^2 + 3xy^3 + 5$ $f_x = 2x + 3y^3$	
10.	Evaluate $\lim_{x \to 4} \frac{x^2 - 16}{x - 4}$	D

	A)0 B) 16 C) 1 D) 8	
11.	Evaluate $\int_0^1 e^x dx$ A)1 B) e C) e-1 D) 0	C