

ECAT Mathematics Chapter 19 Integration

Sr	Questions	Answers Choice
1	Question Image	
2	The differential equations of all conis whose axes coincide with the co-ordinate axis is	
3	Question Image	
4	Question Image	A. Always negative B. Zero C. Always positive D. Infinity
5	Question Image	A. $X = 100 \sin \theta$ B. $X = 10 \sin \theta$ C. $X = 100 \sec \theta$ D. None of these
6	Which of the following integrals can be evaluated	
7	If the graph of f is entirely below the x-axis, then the value of definite integral is	A. = 0 B. $<math>\lt;math>$ 0 C. > 0 D. None
8	$\int \sqrt{\sin^2 x} dx$ is equal to:	A. $x \cot x + \ln \sin x $ B. $-x \cot x - \ln \sin x $ C. $x \cot x - \ln \sin x $ D. $x \tan x - \ln \sec x $
9	Question Image	
10	Question Image	A. $a \cos(ax + b) + c$ B. $-a \cos(ax + b) + c$
11	Question Image	D. none of these
12	Question Image	A. $\cot x + c$ B. $\tan x + c$ C. $-\cot x + c$ D. $-\tan x + c$
13	Question Image	
14	Question Image	A. $a \operatorname{cosec}(ax + b) + c$ B. $-a \operatorname{cosec}(ax + b) + c$
15	Question Image	B. $6x + 2 + c$ C. $6x + x^2 + c$ D. $6x^3 + x^2 + c$
16	$\sqrt[3]{8.6}$ is approximately equal to	A. 2.488 B. 2.48 C. 2.0488 D. 2.05
17	Question Image	
18	Question Image	

19

Question Image

- A. $y + 1 = Ae^{x^2}$
- B. $y + 1 = Axe^{x^2}$
- C. $xe^{x^2} = C$
- D. $y + xe^{x^2} = C$

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Question Image

- A. $\cos 3x + c$
- B. $-\cos 3x + c$