



DPP DAILY PRACTICE PROBLEMS

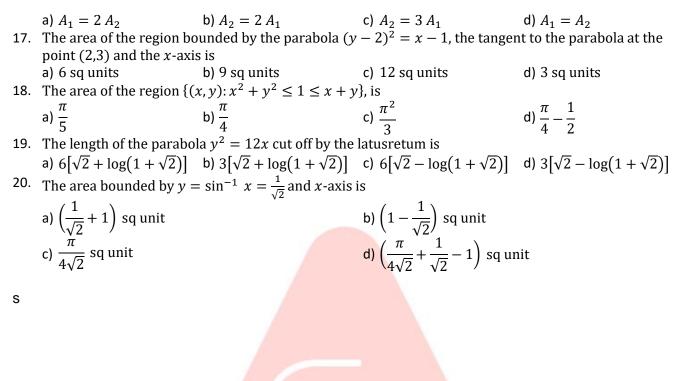
Class : XIth Date : Subject : Maths DPP No. :2

Topic :-Applications of Intergrals				
1.	The area of the region formed by $x^2 + y^2 - 6x - 4y + 12 \le 0$, $y \le x$ and $x \le 5/2$ is			
			c) $\frac{\pi}{6} - \frac{\sqrt{3} - 1}{8}$	d) None of these
2.	Area bounded by the curve	0	0 0	
	$y = \log_e x, x = 0, y \le 0$ and x-axis is			
	a) 1 sq unit b) 1/2 s	-	c) 2 s <mark>q</mark> unit	d) None of these
3.				
	a) 4 b) 5 c) 3 d) 6			
4.	The area included between the parabolas $y^2 = 4x$ and $x^2 = 4y$ is (in square units)			
_	a) 4/3 b) 1/3		c) 16/3	d) 8/3
5.	a) $4/3$ b) $1/3$ c) $16/3$ d) $8/3$ The area of region bounded by the curves $y = x - 1 $ and $y = 3 - x $ is a) 2 sq units b) 3 sq units c) 4 sq units d) 6 sq units			
~	a) 2 sq units b) 3 sq i		c) 4 sq units	d) 6 sq units
6.	The area bounded by the curves $y = x^3$, $y = x^2$ and the ordinates $x = 1, x = 2$ is			
	a) $\frac{17}{12}$ b) $\frac{12}{13}$		c) $\frac{2}{7}$	d) $\frac{7}{2}$
7.		= [r - 3] the	r_{-axis} and the lines $r = -$	2
7.	The area bounded by the graph $y = [x - 3] $, the x-axis and the lines $x = -2$ and $x = 3$ is([.] denote the greatest integer function)			
	a) 7 sq unit b) 15 sq	unit	c) 21 sq unit	d) 28 sq unit
8.	Area bounded by the curve $y^2 = 16x$ and line $y = mx$ is $\frac{2}{3}$ then m is equal to			
	a) 3 b) 4 c) 1 d) 2			
9.	The area enclosed by			d) Z
5.	y = 3x - 5, y = 0, x = 3 and x = 5 is			
	a) 12 sq units b) 13 sq	unit	c) $13\frac{1}{2}$ sq unit	d) 14 sq unit
10.	The area of the region bounded by the curves $y = x - 2 , x = 1, x = 3$ and the x-axis is			
	a) 1 b) 2		c) 3	d) 4
11.	The area common to the circle $x^2 + y^2 = 64$ and the parabola $y^2 = 4x$ is			
	a) $\frac{16}{3}(4\pi + \sqrt{3})$ sq unit b) $\frac{16}{3}(8\pi - \sqrt{3})$ sq unit c) $\frac{16}{3}(4\pi - \sqrt{3})$ sq unit d) None of			d) None of these
12.	The ratio of the areas between the curves $y = \cos x$ and $y = \cos 2x$ and x-axis from $x = 0$ to $x = \pi/3$			
	is			
	a) 1:2 b) 2:1		c) $\sqrt{3}:1$	d) None of these
13.	The slope of tangent to a curve $y = f(x)$ at $(x, f(x))$ is $2x + 1$. If the curve passes through the point (1,			
	2), then the area of the region bounded by the curve, the x-axis and the line $x = 1$ is			
	a) $\frac{5}{6}$ sq unit b) $\frac{6}{5}$ sq u	init	c) $\frac{1}{6}$ sq unit	d) 6 sq unit
14.	The area bounded by the curves $y = x - 1$ and $y = - x + 1$ is			
	a) 1 sq unit b) 2 sq u		c) $2\sqrt{2}$ sq unit	d) 4 sq unit
15.	The area of smaller portion bounded by $ y = -x + 1$ and $y^2 = 4x$ is			
	a) 1 sq unit b) 2 sq unit c) 3 sq unit d) None of these			
16.	If A_1 is the area enclosed by the curve $xy = 1$, x -axis and the ordinates $x = 1$, $x = 2$; and A_2 is the area			
	enclosed by the curve $xy = 1$, x-axis and the ordinates $x = 2$, $x = 4$, then			

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