

# Gujarat Technological University

## Diploma Engineering C to D Bridge Course Examination

**Subject Code: C320003****Date: 8-06-2017****Subject Name: ADVANCED MATHEMATICS (GROUP -2)****Time: 10.30 AM TO 12.00PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumption wherever necessary.
3. Each question is of 1 mark.
4. Use of SIMPLE CALCULATOR is permissible. (Scientific/Higher Version not allowed)
5. English version is authentic.

No.	Question Text and Option. પ્રશ્ન અને વિકલ્પો.			
1.	Distance between the points (1, -2) and (2,3) is _____. A. $\sqrt{13}$ B. $\sqrt{23}$ C. $\sqrt{3}$ D. $\sqrt{26}$			
1.	વિદુટઓ (1, -2) અને (2,3) વાચેનું અંતર ____ થાય. A. $\sqrt{13}$ B. $\sqrt{23}$ C. $\sqrt{3}$ D. $\sqrt{26}$			
2.	The slope of the line passing through the points A(1, -1) and B(4,5) is _____. A. 1      B. 2 C. -2      D. 3			
2.	વિદુટઓ A(1, -1) અને B(4,5) માંથી પસાર થતી રેખાનો ફાળ ____ થાય. A. 1      B. 2 C. -2      D. 3			
3.	If lines $5x - ky = 4$ and $2x - 3y = 5$ are parallel then $k =$ _____. A. $\frac{-15}{2}$ B. $\frac{15}{2}$ C. 2      D. 3			
3.	જો રેખાઓ $5x - ky = 4$ અને $2x - 3y = 5$ સમાંતર હોય તો $k =$ _____. A. $\frac{-15}{2}$ B. $\frac{15}{2}$ C. 2      D. 3			
4.	X-intercept of the line $2x + 3y = 4$ is _____. A. -2      B. 3 C. 2      D. 4			
4.	રેખા $2x + 3y = 4$ માટે X-અંતરભંડ ____ થાય. A. -2      B. 3 C. 2      D. 4			
5.	Equation of line passing through (3,4) and perpendicular to the line $2x - 3y = 1$ is _____. A. $3x + 2y = 17$ B. $3x - 2y = 17$ C. $3x - 2y = -17$ D. $3x + 2y = -17$			
5.	વિદુટ (3,4) માંથી પસાર થતી અને $2x - 3y = 1$ રેખાને લંબ રેખાનું સમીકરણ ____ થાય. A. $3x + 2y = 17$ B. $3x - 2y = 17$ C. $3x - 2y = -17$ D. $3x + 2y = -17$			

	The point _____ is not on the line $x + y = 1$			
6.	A. (0,1)	B. (3,4)	C. (1,0)	D. (-3,4)
5.	નીચેનામાંથી બંદુક _____ એ રેખા $x + y = 1$ પર નથી.			
	A. (0,1)	B. (3,4)	C. (1,0)	D. (-3,4)
7.	The point _____ is on the circle $x^2 + (y - 1)^2 = 0$			
	A. (0,1)	B. (2,1)	C. (1,1)	D. (1,3)
9.	બંદુક _____ એ વર્તુળ $x^2 + (y - 1)^2 = 0$ પર છે.			
	A. (0,1)	B. (2,1)	C. (1,1)	D. (1,3)
8.	If $f(x) = 2^x + 3^x$ then $f(0) = \text{_____}$ .			
	A. 5	B. 0	C. 1	D. 2
c.	$f(x) = 2^x + 3^x$ હિંદે $f(0) = \text{_____}$ .			
	A. 5	B. 0	C. 1	D. 2
9.	For $f(x) = \frac{x-1}{x+1}$ then $f\left(\frac{1}{x}\right) = \text{_____}$ .			
	A. $f(x)$	B. $-f(x)$	C. 0	D. 1
c.	$f(x) = \frac{x-1}{x+1}$ હિંદે $f\left(\frac{1}{x}\right) = \text{_____}$ .			
	A. $f(x)$	B. $-f(x)$	C. 0	D. 1
10.	$\lim_{\theta \rightarrow 0} \frac{\tan 7\theta}{\theta} = \text{_____}$ .			
	A. 1/7	B. 1	C. 0	D. 7
10.	$\lim_{\theta \rightarrow 0} \frac{\tan 7\theta}{\theta} = \text{_____}$ .			
	A. 1/7	B. 1	C. 0	D. 7
11.	If $f(x) = 4x^2 - 3x + 8$ then $f(1) = \text{_____}$ .			
	A. 8	B. 1	C. 9	D. 0
11.	$f(x) = 4x^2 - 3x + 8$ હિંદે $f(1) = \text{_____}$			
	A. 8	B. 1	C. 9	D. 0
12.	$\lim_{x \rightarrow 1} \frac{x+7}{x+1} = \text{_____}$ .			
	A. 7	B. 1	C. 4	D. 0
12.	$\lim_{x \rightarrow 1} \frac{x+7}{x+1} = \text{_____}$ .			
	A. 7	B. 1	C. 4	D. 0

13.	$\lim_{x \rightarrow 2} \frac{x^2 - 3x + 2}{x - 2} = \text{_____} .$ A. 0      B. 1 C. 2      D. 3			
	$\lim_{x \rightarrow 2} \frac{x^2 - 3x + 2}{x - 2} = \text{_____}$ A. 0      B. 1 C. 2      D. 3			
	$\frac{d}{dx}(\log x) = \text{_____} .$ A. $\frac{1}{x}$ B. $-\frac{1}{x}$ C. $x$ D. $-x$			
14.	$\frac{d}{dx}(\log x) = \text{_____} .$ A. $\frac{1}{x}$ B. $-\frac{1}{x}$ C. $x$ D. $-x$			
	$\text{For } y = \tan 45^\circ, \frac{dy}{dx} = \text{_____} .$ A. 3      B. 2 C. 1      D. 0			
	$y = \tan 45^\circ \text{ မျှ} \frac{dy}{dx} = \text{_____} .$ A. 3      B. 2 C. 1      D. 0			
15.	$\text{For } y = \cos x + 9, \frac{d^2y}{dx^2} = \text{_____.}$ A. $y$ B. $-y$ C. $\cos x$ D. $-\cos x$			
	$y = \cos x + 9 \text{ မျှ} \frac{d^2y}{dx^2} = \text{_____.}$ A. $y$ B. $-y$ C. $\cos x$ D. $-\cos x$			
	$\frac{d}{dx}[\log(\sec x)] = \text{_____}$ A. $\sec x$ B. $\tan x$ C. $\frac{1}{\sec x}$ D. $\cot x$			
16.	$\frac{d}{dx}[\log(\sec x)] = \text{_____}$ A. $\sec x$ B. $\tan x$ C. $\frac{1}{\sec x}$ D. $\cot x$			
	$\text{If } y = e^{\sin x} \text{ then } \frac{dy}{dx} = \text{_____} .$ A. $e^{\sin x}$ B. $e^{\sin x} \cos x$ C. $e^{\cos x}$ D. $e^{\cos x} \cos x$			
	$y = e^{\sin x} \text{ မျှ} \frac{dy}{dx} = \text{_____} .$			

	A.	$e^{\sin x}$	B.	$e^{\sin x} \cos x$
	C.	$e^{\cos x}$	D.	$e^{\cos x} \cos x$
19.	If $y = x^2 \cos x$ then $\frac{dy}{dx} = \text{_____}$ .			
	A.	$2x \cos x$	B.	$2x - \sin x$
	C.	$2x \cos x - x^2 \sin x$	D.	$2x \cos x - x^2 \sin x + c$
20.	$y = x^2 \cos x$ $\therefore \frac{dy}{dx} = \text{_____}$ .			
	A.	$e^x \log_e x$	B.	$e^x$
	C.	1	D.	0
21.	$\frac{d}{dx}(e^x) = \text{_____}$ .			
	A.	$e^x \log_e x$	B.	$e^x$
	C.	1	D.	0
22.	For $y = \sin \theta, x = \cos \theta, \frac{dy}{dx} = \text{_____}$ .			
	A.	$\cot \theta$	B.	$\tan \theta$
	C.	$-\tan \theta$	D.	$-\cot \theta$
23.	$y = \sin \theta, x = \cos \theta, \therefore \frac{dy}{dx} = \text{_____}$ .			
	A.	$\cot \theta$	B.	$\tan \theta$
	C.	$-\tan \theta$	D.	$-\cot \theta$
24.	If $x^2 = 3xy + 9$ then $\frac{dy}{dx} = \text{_____}$ .			
	A.	$\frac{3x - 2y}{3x}$	B.	$\frac{2x + 3y}{3x}$
	C.	$\frac{2x - 3y}{3x}$	D.	$\frac{2x - 3y}{x}$
25.	$x^2 = 3xy + 9 \therefore \frac{dy}{dx} = \text{_____}$ .			
	A.	$\frac{3x - 2y}{3x}$	B.	$\frac{2x + 3y}{3x}$
	C.	$\frac{2x - 3y}{3x}$	D.	$\frac{2x - 3y}{x}$
26.	$\int e^x dx = \text{_____}$ .			
	A.	$e^{2x} + c$	B.	$e^x + c$
	C.	0	D.	$e^{x^2} + c$
27.	$\int e^x dx = \text{_____}$ .			
	A.	$e^{2x} + c$	B.	$e^x + c$
	C.	0	D.	$e^{x^2} + c$
28.	$\int (\operatorname{cosec}^2 x - \cot^2 x) dx = \text{_____}$			
	A.	0	B.	1
	C.	$\operatorname{cosec} x + c$	D.	$x + c$

28.	$\int (\cosec^2 x - \cot^2 x) dx = \text{_____}$			
	A. 0	B. 1	C. $\cosec x + c$	D. $x + c$
	$\int \frac{f'(x)}{f(x)} dx = \text{_____} .$			
25.	A. $\log  f(x)  + c$	B. $\log  f'(x)  + c$	C. $\log [f(x) + f'(x)] + c$	D. $n [f(x)]^{n-1} + c$
	$\int \frac{f'(x)}{f(x)} dx = \text{_____} .$			
	A. $\log  f(x)  + c$	B. $\log  f'(x)  + c$	C. $\log [f(x) + f'(x)] + c$	D. $n [f(x)]^{n-1} + c$
26.	$\int \frac{1}{x+7} dx = \text{_____} .$			
	A. $\log(x+7) + c$	B. $\log(7x) + c$	C. $\frac{7}{\log(x+7)} + c$	D. $\frac{1}{\log(x+7)} + c$
	$\int \frac{1}{x+7} dx = \text{_____} .$			
25.	A. $\log(x+7) + c$	B. $\log(7x) + c$	C. $\frac{7}{\log(x+7)} + c$	D. $\frac{1}{\log(x+7)} + c$
	$\int (2x-1) d\theta = \text{_____} + c .$			
	A. $x^2 - 2x + c$	B. $x^2 + 2x$	C. $(2x-1)\theta$	D. $(2x-1)^2 \theta$
27.	$\int (2x-1) d\theta = \text{_____} + c .$			
	A. $x^2 - 2x + c$	B. $x^2 + 2x$	C. $(2x-1)\theta$	D. $(2x-1)^2 \theta$
	$\int (2x-1) d\theta = \text{_____} + c .$			
28.	$\int_0^1 e^{2x} dx = \text{_____} .$			
	A. 0	B. 1	C. $\frac{e^2 - 1}{2}$	D. $\frac{1 - e^2}{2}$
	$\int_0^1 e^{2x} dx = \text{_____} .$			
29.	A. 0	B. 1	C. $\frac{e^2 - 1}{2}$	D. $\frac{1 - e^2}{2}$
	$\int \cot \theta d\theta = \text{_____} + c$			
	A. $\log  \tan \theta $	B. $\log  \sin \theta $	C. $\log  \sec \theta $	D. $\log  \cos \theta $
30.	$\int \cot \theta d\theta = \text{_____} + c$			
	A. $\log  \tan \theta $	B. $\log  \sin \theta $	C. $\log  \sec \theta $	D. $\log  \cos \theta $

	C.	$\log  \sec \theta $	D.	$\log  \cos \theta $
30.		$\int \sec^2 x \, dx = \text{_____}$ .		
	A.	$\tan^2 x + c$	B.	$\sec x \tan x + c$
	C.	$\sec x + c$	D.	$\tan x + c$
30.		$\int \sec^2 x \, dx = \text{_____}$ .		
	A.	$\tan^2 x + c$	B.	$\sec x \tan x + c$
	C.	$\sec x + c$	D.	$\tan x + c$
31.		Mean of observations 2,3,5,7,8 is _____.		
	A.	5	B.	10
	C.	5.5	D.	6
31.		અવલોકનો 2,3,5,7,8 નો મધ્યક _____ છે.		
	A.	5	B.	10
	C.	5.5	D.	6
32.		Median of observations 10, 9, 2,3, 1, 5,7,8, 13 is _____.		
	A.	7	B.	9
	C.	8	D.	10
32.		અવલોકનો 10, 9, 2,3, 1, 5,7,8, 13 નો મધ્યસ્થ _____ છે.		
	A.	7	B.	9
	C.	8	D.	10
33.		Mode of observations 7, 9, 7,5, 1, 5,7,8, 13 is _____.		
	A.	5	B.	13
	C.	8	D.	7
33.		અવલોકનો 7, 9, 7,5, 1, 5,7,8, 13 નો બહુલક _____ છે.		
	A.	5	B.	13
	C.	8	D.	7
34.		Mean of first five natural number is _____.		
	A.	5	B.	2
	C.	3	D.	1
34.		પ્રથમ પાંચ પ્રાકૃતિક સંખ્યાઓનો મધ્યક _____ છે.		
	A.	5	B.	2
	C.	3	D.	1
35.		Median of first ten natural number is _____.		
	A.	5.5	B.	10
	C.	5	D.	6
35.		પ્રથમ દશ પ્રાકૃતિક સંખ્યાઓનો મધ્યસ્થ _____ છે.		
	A.	5.5	B.	10
	C.	5	D.	6
36.		If $f(x) = x^{10} + x^9 + 2$ then $f(-1) = \text{_____}$ .		
	A.	3	B.	0
	C.	2	D.	1
36.		$f(x) = x^{10} + x^9 + 2$ માટે $f(-1) = \text{_____}$ .		
	A.	3	B.	0
	C.	2	D.	1
37.		If $f(x) = \log_5 x$ then $f(5) = \text{_____}$ .		
	A.	5	B.	1
	C.	0	D.	10
37.		$f(x) = \log_5 x$ માટે $f(5) = \text{_____}$ .		

	A.	5	B.	1
	C.	0	D.	10
38.	$\lim_{n \rightarrow \infty} \frac{2 \sum n}{n^2} = \text{_____}.$			
	A.	1	B.	2
39.	$\lim_{n \rightarrow \infty} \frac{2 \sum n}{n^2} = \text{_____}.$			
	A.	1	B.	2
40.	$f(x) = \log x \text{ မျှ} f(xy) = \text{_____}.$			
	A.	$f(x)f(y)$	B.	$f(x) + f(y)$
	C.	$f(x)/f(y)$	D.	$f(x) - f(y)$
41.	$f(x) = \log x \text{ မျှ} f(xy) = \text{_____}.$			
	A.	$f(x)f(y)$	B.	$f(x) + f(y)$
42.	$\lim_{x \rightarrow 0} \frac{3^x - 1}{x} = \text{_____}.$			
	A.	3	B.	$\log x$
	C.	1	D.	$\log 3$
43.	$\lim_{x \rightarrow 0} \frac{3^x - 1}{x} = \text{_____}.$			
	A.	3	B.	$\log x$
44.	$\lim_{x \rightarrow 1} \left( \frac{x^2 - x}{x - 1} \right) = \text{_____}.$			
	A.	0	B.	1
	C.	$x$	D.	-1
45.	$\lim_{x \rightarrow 1} \left( \frac{x^2 - x}{x - 1} \right) = \text{_____}.$			
	A.	0	B.	1
46.	$y = xe^x \text{ မျှ} \frac{dy}{dx} = \text{_____}.$			
	A.	$e^x(x+1)$	B.	$x(e^x + 1)$
	C.	$e^x(x-1)$	D.	$x(e^x - 1)$
47.	$y = xe^x \text{ မျှ} \frac{dy}{dx} = \text{_____}.$			
	A.	$e^x(x+1)$	B.	$x(e^x + 1)$
48.	$\frac{d}{dx}(\tan^{-1} x) = \text{_____.}$			
	A.	$\frac{-1}{1+x^2}$	B.	$\frac{-1}{1-x^2}$
	C.	$\frac{1}{1+x^2}$	D.	$\frac{1}{1-x^2}$

	$\frac{d}{dx}(\tan^{-1} x) = \text{_____}.$			
43.	A.	$\frac{-1}{1+x^2}$	B.	$\frac{-1}{1-x^2}$
	C.	$\frac{1}{1+x^2}$	D.	$\frac{1}{1-x^2}$
44.	If $y = x + 49$ then $\frac{dy}{dx} = \text{_____}.$			
	A.	1	B.	49
45.	$y = x + 49$ હાલે $\frac{dy}{dx} = \text{_____}.$			
	A.	1	B.	49
46.	$\frac{d^2}{dx^2}(e^{2x+5}) = \text{_____}.$			
	A.	$2e^{2x+5}$	B.	$4e^{2x+5}$
47.	$\frac{d^2}{dx^2}(e^{2x+5}) = \text{_____}.$			
	C.	$e^{2x+5}$	D.	$5e^{2x+5}$
48.	$y = \frac{x+2}{x}$ હાલે $\frac{dy}{dx} = \text{_____}.$			
	A.	$\frac{x^2+2}{x}$	B.	$\frac{-2}{x^2}$
49.	$y = \frac{x+2}{x}$ હાલે $\frac{dy}{dx} = \text{_____}.$			
	C.	1	D.	$\frac{2}{x^2}$
50.	Equation of the motion of moving particle is given by $s = 3t^2 - 2t + 17$ , then the velocity at $t = 1$ second is _____.			
	A.	6	B.	2
51.	એક ગતિ કરતા કાણની ગતિ નું સમીકરણ $s = 3t^2 - 2t + 17$ છે, તો $t = 1$ સેકન્ડ કાણનો વેગ શરાય.			
	C.	4	D.	1
52.	If $f(x)$ has maximum value at $x = x_1$ then _____.			
	A.	$f'(x_1) > 0$	B.	$f'(x_1) < 0$
53.	$f'(x_1) = 0$			
	C.	$f'(x_1) > 0$ or $f'(x_1) < 0$	D.	$f'(x_1) > 0$ or $f'(x_1) < 0$
54.	જો વિઘેય $f(x)$ ને $x = x_1$ પાસે મહત્વ હોય તો _____.			
	A.	$f'(x_1) > 0$	B.	$f'(x_1) < 0$

	C.	$f'(x_1) = 0$	D.	$f'(x_1) > 0$ or $f'(x_1) < 0$
49.	$\frac{d}{dx}(x^x) = x^x \left( \text{_____} \right).$			
	A.	$1 - \log x$	B.	$1 + \log x$
	C.	$x^x(1 - \log x)$	D.	$x^x(1 + \log x)$
50.	$\frac{d}{dx}(x^x) = x^x \left( \text{_____} \right).$			
	A.	$1 - \log x$	B.	$1 + \log x$
	C.	$x^x(1 - \log x)$	D.	$x^x(1 + \log x)$
51.	If $y = \cos^2 x + \sin^2 x$ than $\frac{dy}{dx} = \text{_____}$ .			
	A.	0	B.	1
	C.	2	D.	-1
52.	$y = \cos^2 x + \sin^2 x \quad \text{Hil}\check{\text{z}} \quad \frac{dy}{dx} = \text{_____}.$			
	A.	$4x^4 + c$	B.	$x^4 + c$
	C.	$x^3 + c$	D.	$12x^3 + c$
53.	$\int 4x^3 dx = \text{_____}.$			
	A.	$4x^4 + c$	B.	$x^4 + c$
	C.	$x^3 + c$	D.	$12x^3 + c$
54.	$\int \frac{1}{1+x^2} dx = \text{_____}.$			
	A.	$-\tan^{-1} x + c$	B.	$\tan x + c$
	C.	$\tan^{-1} x + c$	D.	$2x + c$
55.	$\int \frac{1}{1+x^2} dx = \text{_____}.$			
	A.	$-\tan^{-1} x + c$	B.	$\tan x + c$
	C.	$\tan^{-1} x + c$	D.	$2x + c$
56.	$\int_{-3}^3 x^3 dx = \text{_____}.$			
	A.	3	B.	3/2
	C.	0	D.	1
57.	$\int_{-3}^3 x^3 dx = \text{_____}.$			
	A.	3	B.	3/2
	C.	0	D.	1
58.	$\int u(x)v(x)dx = u(x)\int v(x)dx - \int \left[ \left\{ \text{_____} \right\} \int v(x)dx \right] dx.$			
	A.	$\frac{d}{dx}u(x)$	B.	$\int u(x)dx$
	C.	$\int u(x)dx$	D.	$\frac{d}{dx}[v(x)]$

	A.	$\frac{d}{dx} u(x)$	B.	$\int u(x) dx$
	C.	$\int u(x) dx$	D.	$\frac{d}{dx} [v(x)]$
55.	$\int_0^{\pi} \sin x \, dx = \text{_____}.$			
	A.	2	B.	-2
56.	$\int_0^{\pi} \sin x \, dx = \text{_____}.$			
	A.	2	B.	-2
57.	$\int (2x - 1) \, dx = \text{_____} + c$			
	A.	$x^2 - 2x + c$	B.	$x^2 - x + c$
58.	$\int (2x - 1) \, dx = \text{_____} + c$			
	C.	$x^2 + x + c$	D.	$x^2 + 2x + c$
59.	Area bounded by the curves $y = x^2$ , $X - axis$ and lines $x = 0, x = 1$ is _____.			
	A.	0	B.	1
60.	Aને $y = x^2$ , $X - axis$ અને $x = 0, x = 1$ વડે ઘેરાયેલા પ્રદેશનું ક્ષેત્રફળ _____ થાય.			
	C.	1/3	D.	2/3
61.	If mean of observations 4, 7, 6, a, 5, 9 is 6 then value of a is _____.			
	A.	6	B.	4
62.	If median of observations 12, 9, 14, 23, b, 18, 8 is 16 then value of b is _____.			
	C.	5	D.	2
63.	If the mode of observations 2, 3, 3, 2, 5, 3, 7, 8, 2, c, 7 is 3 then value of c is _____.			
	A.	2	B.	7
64.	If the mode of observations 2, 3, 3, 2, 5, 3, 7, 8, 2, c, 7 is 3 then value of c is _____.			
	C.	3	D.	8
65.	If the mode of observations 2, 3, 3, 2, 5, 3, 7, 8, 2, c, 7 is 3 then value of c is _____.			
	A.	2	B.	7
66.	Mean of first five prime numbers is _____.			
	C.	5.7	D.	5.6
67.	પ્રથમ પાંચ અવિભાજ્ય સંખ્યાઓનો મધ્યક _____ છે.			
	A.	5.5	B.	5
68.	Aને પ્રથમ પાંચ અવિભાજ્ય સંખ્યાઓનો મધ્યક _____ છે.			
	C.	5.7	D.	5.6

62.	Median of first six prime numbers is ____.			
	A.	5	B.	6
	C.	7	D.	4
62.	પ્રથમ પાંચ અલિભાજ્ય સંખ્યાઓનો મદ્યસ્થ કેંદ્ર છે.			
	A.	5	B.	6
	C.	7	D.	4
63.	X-intercept of the line $y + 4 = 0$ is ____.			
	A.	-4	B.	4
	C.	0	D.	Not defined.
63.	રેખા $y + 4 = 0$ નો X-અંતઃખંડ કેંદ્ર છે.			
	A.	-4	B.	4
	C.	0	D.	વ્યાખ્યાાવિત નથી.
64.	Slope of the line $4x - 2y + 11 = 0$ is ____.			
	A.	3	B.	2
	C.	4	D.	11
64.	રેખા $4x - 2y + 11 = 0$ નો ઢાળ કેંદ્ર છે.			
	A.	3	B.	2
	C.	4	D.	11
65.	Centre of the circle $x^2 + (y - 2)^2 = 0$ is ____.			
	A.	(0, 2)	B.	(0, -2)
	C.	(1, 2)	D.	(2, 2)
65.	વર્તુળ $x^2 + (y - 2)^2 = 0$ નું કેન્દ્ર કેંદ્ર છે.			
	A.	(0, 2)	B.	(0, -2)
	C.	(1, 2)	D.	(2, 2)
66.	Equation of the circle whose centre is (0,0) and radius is 3 is ____.			
	A.	$x^2 + y^2 = 3$	B.	$x^2 + y^2 = 2$
	C.	$x^2 + y^2 = 9$	D.	$(x - 3)^2 + (y - 3)^2 = 0$
66.	જો વર્તુળનું કેન્દ્ર (0,0) અને ત્રિજ્યા 3 હોય તે વર્તુળ નું સમીકરણ કેંદ્ર થાય.			
	A.	$x^2 + y^2 = 3$	B.	$x^2 + y^2 = 2$
	C.	$x^2 + y^2 = 9$	D.	$(x - 3)^2 + (y - 3)^2 = 0$
67.	If general equation of the circle is $x^2 + y^2 + 2gx + 2fy + c = 0$ then radius is ____.			
	A.	$2g + 2f + c$	B.	$c$
	C.	$\sqrt{g^2 + f^2 + c} = 0$	D.	$c^2$
67.	જો વર્તુળનું વ્યાપક સમીકરણ $x^2 + y^2 + 2gx + 2fy + c = 0$ હોય તો તેની ત્રિજ્યા કેંદ્ર થાય.			
	A.	$2g + 2f + c$	B.	$c$
	C.	$\sqrt{g^2 + f^2 + c} = 0$	D.	$c^2$
68.	If distance between points A(x,-1) and B(3,2) is 5 then $x=$ ____.			
	A.	$x = -7 \text{ or } x = -1$	B.	$x = 7 \text{ or } x = -1$
	C.	$x = -7 \text{ or } x = 1$	D.	$x = 7 \text{ or } x = 1$
68.	જો બંદુકો A(x,-1) અને B(3,2) વાચેનું અંતર 5 એકમ હોય તો $x=$ ____.			
	A.	$x = -7 \text{ or } x = -1$	B.	$x = 7 \text{ or } x = -1$
	C.	$x = -7 \text{ or } x = 1$	D.	$x = 7 \text{ or } x = 1$
69.	Equation of line passing through points (3,2) and (-3,2) is ____.			
	A.	$y = 2$	B.	$x = -3$

	C.	$2x + 3y = 1$	D.	$x = 3$
56.	A.	$y = 2$	B.	$x = -3$
	C.	$2x + 3y = 1$	D.	$x = 3$
	બિંદુઓ (3,2) અને (-3,2) માંથી પસાર થતી રેખાનું સમીકરણ ____ થાય.			
70.	A.	-4	B.	3
	C.	4	D.	1
	If (1, -1), (b, 5) and (2,1) are colinear then value of b=____.			
90.	A.	-4	B.	3
	C.	4	D.	1
	જો બિંદુઓ (1, -1), (b, 5) અને (2,1) સમરેખ હોય તો b=____.			

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