

- C. 0 D. 3
- $\log(a/b) = \underline{\hspace{2cm}}$
- 7 A. $\log a - \log b$ B. $\log(a + b)$
C. $\log(a - b)$ D. $\log(a/b)$
- $\log(a/b) = \underline{\hspace{2cm}}$
- 7 A. $\log a - \log b$ B. $\log(a + b)$
C. $\log(a - b)$ D. $\log(a/b)$
- If $\log\left(\frac{a+b}{2}\right) = \frac{1}{2}(\log a + \log b)$ then = $\underline{\hspace{2cm}}$
- 8 A. $a^2 + b^2 = 1$ B. $a^2 + b^2 = 6ab$
C. $a + b = 1$ D. $a = b$
- $\text{યે } \log\left(\frac{a+b}{2}\right) = \frac{1}{2}(\log a + \log b) \text{ હી } = \underline{\hspace{2cm}}$
- 8 A. $a^2 + b^2 = 1$ B. $a^2 + b^2 = 6ab$
C. $a + b = 1$ D. $a = b$
- $\log_{10} \frac{1}{10000} = \underline{\hspace{2cm}}$
- 9 A. 3 B. 4
C. -4 D. -3
- $\log_{10} \frac{1}{10000} = \underline{\hspace{2cm}}$
- 9 A. 3 B. 4
C. -4 D. -3
- $\log_3 27 = \underline{\hspace{2cm}}$
- 10 A. 4 B. 2
C. 3 D. 5
- $\log_3 27 = \underline{\hspace{2cm}}$
- 10 A. 4 B. 2
C. 3 D. 5
- If $A = \begin{bmatrix} -1 & -3 \\ 6 & 2 \end{bmatrix}$ then $\text{adj}A = \underline{\hspace{2cm}}$
- 11 A. $\begin{bmatrix} 2 & -3 \\ 6 & -1 \end{bmatrix}$ B. $\begin{bmatrix} -1 & -3 \\ 6 & 2 \end{bmatrix}$
C. $\begin{bmatrix} -1 & 3 \\ -6 & 2 \end{bmatrix}$ D. $\begin{bmatrix} 2 & 3 \\ -6 & -1 \end{bmatrix}$
- $\text{યે } A = \begin{bmatrix} -1 & -3 \\ 6 & 2 \end{bmatrix} \text{ હી } \text{adj}A = \underline{\hspace{2cm}}$
- 11 A. $\begin{bmatrix} 2 & -3 \\ 6 & -1 \end{bmatrix}$ B. $\begin{bmatrix} -1 & -3 \\ 6 & 2 \end{bmatrix}$
C. $\begin{bmatrix} -1 & 3 \\ -6 & 2 \end{bmatrix}$ D. $\begin{bmatrix} 2 & 3 \\ -6 & -1 \end{bmatrix}$
- If $A = \begin{bmatrix} 9 \\ 5 \end{bmatrix}$ then $A^T = \underline{\hspace{2cm}}$
- 12 A. $\begin{bmatrix} 9 & 5 \end{bmatrix}$ B. $\begin{bmatrix} 5 & 9 \end{bmatrix}$
C. $\begin{bmatrix} 5 \\ 9 \end{bmatrix}$ D. $\begin{bmatrix} 9 \\ 5 \end{bmatrix}$
- $\text{યે } A = \begin{bmatrix} 9 \\ 5 \end{bmatrix} \text{ હી } A^T = \underline{\hspace{2cm}}$
- 12 A. $\begin{bmatrix} 9 & 5 \end{bmatrix}$ B. $\begin{bmatrix} 5 & 9 \end{bmatrix}$
C. $\begin{bmatrix} 5 \\ 9 \end{bmatrix}$ D. $\begin{bmatrix} 9 \\ 5 \end{bmatrix}$
- Total member of $I_3 = \underline{\hspace{2cm}}$
- 13 A. 3 B. 4
C. 6 D. 9
- I_3 માં કુલ સંખ્યા = $\underline{\hspace{2cm}}$
- 13 A. 3 B. 4
C. 6 D. 9

- If $A = \begin{bmatrix} 2 & 4 \\ 5 & 7 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 9 \\ 4 & 1 \end{bmatrix}$ then $A+B=$ _____
- 14 A. $\begin{bmatrix} 3 & 13 \\ 1 & 6 \end{bmatrix}$ B. $\begin{bmatrix} 3 & 13 \\ 9 & 6 \end{bmatrix}$
 C. $\begin{bmatrix} 3 & 13 \\ 9 & 8 \end{bmatrix}$ D. $\begin{bmatrix} 3 & 13 \\ 6 & 8 \end{bmatrix}$
- જે $A = \begin{bmatrix} 2 & 4 \\ 5 & 7 \end{bmatrix}$ અને $B = \begin{bmatrix} 1 & 9 \\ 4 & 1 \end{bmatrix}$ તો $A+B=$ _____
- 14 A. $\begin{bmatrix} 3 & 13 \\ 1 & 6 \end{bmatrix}$ B. $\begin{bmatrix} 3 & 13 \\ 9 & 6 \end{bmatrix}$
 C. $\begin{bmatrix} 3 & 13 \\ 9 & 8 \end{bmatrix}$ D. $\begin{bmatrix} 3 & 13 \\ 6 & 8 \end{bmatrix}$
- If $\begin{bmatrix} x-3 & 4 \\ 3 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 4 \\ 3 & 0 \end{bmatrix}$ then $x =$ _____
- 15 A. 2 B. 1
 C. 4 D. 3
- જે $\begin{bmatrix} x-3 & 4 \\ 3 & 0 \end{bmatrix} = \begin{bmatrix} 0 & 4 \\ 3 & 0 \end{bmatrix}$ તો $x =$ _____
- 15 A. 2 B. 1
 C. 4 D. 3
- The order of the matrix $\begin{bmatrix} 5 & -7 \\ 0 & 1 \\ 7 & 6 \end{bmatrix}$ is _____
- 16 A. 2×3 B. 3×3
 C. 3×2 D. 2×2
- શૈખિક $\begin{bmatrix} 5 & -7 \\ 0 & 1 \\ 7 & 6 \end{bmatrix}$ ની કાળા _____
- 16 A. 2×3 B. 3×3
 C. 3×2 D. 2×2
- Matrix $A = [3 \quad -4 \quad 9]$ is _____ matrix
- 17 A. Square B. Row
 C. Column D. Identity
- શૈખિક $A = [3 \quad -4 \quad 9]$ એ _____ શૈખિક છે.
- 17 A. ચોરસ B. હાર
 C. સ્તંભ D. એકમ
- If A is a square matrix then, $A - A^T$ is _____ matrix
- 18 A. Diagonal B. Symmetric
 C. Skew-symmetric D. Row
- જો A ચોરસ શૈખિક હોય તો, $A - A^T$ _____ શૈખિક છે.
- 18 A. વિકર્ણી B. સંમિત
 C. વિસંમિત D. હાર
- If $A = \begin{bmatrix} 9 & 5 \\ -4 & 3 \end{bmatrix}$ then $\text{adj}(\text{adj}A) =$ _____
- 19 A. $-A$ B. I
 C. A D. 0
- જે $A = \begin{bmatrix} 9 & 5 \\ -4 & 3 \end{bmatrix}$ તો $\text{adj}(\text{adj}A) =$ _____
- 19 A. $-A$ B. I
 C. A D. 0
- If $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ then $A^2 =$ _____
- 20 A. $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ B. $\begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$
 C. $\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$ D. $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$

- જો $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ તો $A^2 = \underline{\hspace{2cm}}$
20. A. $\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$ B. $\begin{bmatrix} 1 & 0 \\ 1 & 1 \end{bmatrix}$
 C. $\begin{bmatrix} 1 & 0 \\ 1 & 0 \end{bmatrix}$ D. $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$
- If $A = [2 \ 1 \ 4]$ and $B = \begin{bmatrix} 1 \\ 3 \\ 0 \end{bmatrix}$ then $A \cdot B = \underline{\hspace{2cm}}$
21. A. 5 B. 0
 C. -5 D. 9
- જો $A = [2 \ 1 \ 4]$ અને $B = \begin{bmatrix} 1 \\ 3 \\ 0 \end{bmatrix}$ તો $A \cdot B = \underline{\hspace{2cm}}$
21. A. 5 B. 0
 C. -5 D. 9
- If order of matrices A and B are $p \times q$ and $q \times r$ respectively then AB is of order _____
22. A. $p \times q$ B. $q \times r$
 C. $r \times p$ D. $p \times r$
- જો શ્રેણીક A અને B ની કક્ષા અનુકૂળમે $p \times q$ અને $q \times r$ હોય તો AB ની કક્ષા _____
22. A. $p \times q$ B. $q \times r$
 C. $r \times p$ D. $p \times r$
- The inverse of square matrix A is exist if _____
23. A. $|A| \neq 0$ B. $|A| = 0$
 C. $A = I$ D. $A = A^{-1}$
- શ્રેણીક A નો વ્યસ્ત શ્રેણીક અસ્તિત્વ ધરાવે જો _____
23. A. $|A| \neq 0$ B. $|A| = 0$
 C. $A = I$ D. $A = A^{-1}$
- If $A = \begin{bmatrix} 2 & 4 \\ 4 & -1 \end{bmatrix}$ then $A + A^T = \underline{\hspace{2cm}}$
24. A. 2A B. A
 C. I D. 0
- જો $A = \begin{bmatrix} 2 & 4 \\ 4 & -1 \end{bmatrix}$ તો $A + A^T = \underline{\hspace{2cm}}$
24. A. 2A B. A
 C. I D. 0
- If A is non-singular matrix then _____
25. A. $A^T = A$ B. $A^T = -A$
 C. $|A| \neq 0$ D. $|A| = 0$
- જો A અસામન્ય શ્રેણીક હોય તો _____
25. A. $A^T = A$ B. $A^T = -A$
 C. $|A| \neq 0$ D. $|A| = 0$
- $(BA)^T = \underline{\hspace{2cm}}$
26. A. $A^T B^T$ B. $A^T B$
 C. AB^T D. $B^T A^T$
- $(BA)^T = \underline{\hspace{2cm}}$
26. A. $A^T B^T$ B. $A^T B$
 C. AB^T D. $B^T A^T$
- _____ is symmetric matrix.
27. A. $\begin{bmatrix} 5 & 3 \\ -3 & 5 \end{bmatrix}$ B. $\begin{bmatrix} 5 & 3 \\ 3 & 5 \end{bmatrix}$
 C. $\begin{bmatrix} 5 & -3 \\ 3 & -5 \end{bmatrix}$ D. $\begin{bmatrix} 3 & 3 \\ 5 & 5 \end{bmatrix}$
27. _____ એ સંમિત શ્રેણીક છે.

- A. $\begin{bmatrix} 5 & 3 \\ -3 & 5 \end{bmatrix}$ B. $\begin{bmatrix} 5 & 3 \\ 3 & 5 \end{bmatrix}$
 C. $\begin{bmatrix} 5 & -3 \\ 3 & -5 \end{bmatrix}$ D. $\begin{bmatrix} 3 & 3 \\ 5 & 5 \end{bmatrix}$
- 28 Principal diagonal element of $\begin{bmatrix} -1 & 5 \\ 1 & 0 \end{bmatrix} = \underline{\hspace{2cm}}$
 A. (0,5) B. (1,5)
 C. (5,0) D. (-1,0)
- 28 શ્રેણીક $\begin{bmatrix} -1 & 5 \\ 1 & 0 \end{bmatrix}$ ના મુખ્યવિકર્ણ પરના ઘટક = $\underline{\hspace{2cm}}$
 A. (0,5) B. (1,5)
 C. (5,0) D. (-1,0)
- $180^\circ = \underline{\hspace{2cm}}$ radian
- 29 A. $\frac{2\pi}{3}$ B. $\frac{3\pi}{2}$
 C. π D. 4π
- $180^\circ = \underline{\hspace{2cm}}$ રેડિયન
- 29 A. $\frac{2\pi}{3}$ B. $\frac{3\pi}{2}$
 C. π D. 4π
- $\sin^2 37 \left(\frac{1}{2}\right)^\circ - \sin^2 7 \left(\frac{1}{2}\right)^\circ = \underline{\hspace{2cm}}$
- 30 A. 1 B. $\frac{1}{2\sqrt{2}}$
 C. $\frac{1}{2}$ D. $\frac{1}{\sqrt{2}}$
- $\sin^2 37 \left(\frac{1}{2}\right)^\circ - \sin^2 7 \left(\frac{1}{2}\right)^\circ = \underline{\hspace{2cm}}$
- 30 A. 1 B. $\frac{1}{2\sqrt{2}}$
 C. $\frac{1}{2}$ D. $\frac{1}{\sqrt{2}}$
- Principal period of $\cos(5 - 2x) = \underline{\hspace{2cm}}$
- 31 A. 2π B. 5π
 C. π D. $-\pi$
- $\cos(5 - 2x)$ નું મુખ્ય આવર્તમાન = $\underline{\hspace{2cm}}$
- 31 A. 2π B. 5π
 C. π D. $-\pi$
- $\sin(-\theta) = \underline{\hspace{2cm}}$
- 32 A. $\cos \theta$ B. $\sin \theta$
 C. $-\sin \theta$ D. $-\cos \theta$
- $\sin(-\theta) = \underline{\hspace{2cm}}$
- 32 A. $\cos \theta$ B. $\sin \theta$
 C. $-\sin \theta$ D. $-\cos \theta$
- $\tan(\pi - \theta) = \underline{\hspace{2cm}}$
- 33 A. $\tan \theta$ B. $\cot \theta$
 C. $-\cot \theta$ D. $-\tan \theta$
- $\tan(\pi - \theta) = \underline{\hspace{2cm}}$
- 33 A. $\tan \theta$ B. $\cot \theta$
 C. $-\cot \theta$ D. $-\tan \theta$
- $\sin 120^\circ = \underline{\hspace{2cm}}$
- 34 A. $\frac{\sqrt{3}}{2}$ B. $\frac{1}{2}$

- C. 0
 $\sin 120^\circ = \underline{\hspace{2cm}}$
D. 1
- 34 A. $\frac{\sqrt{3}}{2}$
B. $\frac{1}{2}$
C. 0
D. 1
- $1 + \tan^2 \theta = \underline{\hspace{2cm}}$
35 A. $\sin^2 \theta$
B. $\cos^2 \theta$
C. $\sec^2 \theta$
D. $\cosec^2 \theta$
- $1 + \tan^2 \theta = \underline{\hspace{2cm}}$
35 A. $\sin^2 \theta$
B. $\cos^2 \theta$
C. $\sec^2 \theta$
D. $\cosec^2 \theta$
- $\sin(\alpha + \beta) =$
36 A. $\sin \alpha \cdot \cos \beta + \cos \alpha \cdot \sin \beta$
B. $\cos \alpha \cdot \cos \beta - \sin \alpha \cdot \sin \beta$
C. $\sin \alpha \cdot \sin \beta + \cos \alpha \cdot \cos \beta$
D. $\sin \alpha \cdot \cos \beta - \cos \alpha \cdot \sin \beta$
- $\sin(\alpha + \beta) =$
36 A. $\sin \alpha \cdot \cos \beta + \cos \alpha \cdot \sin \beta$
B. $\cos \alpha \cdot \cos \beta - \sin \alpha \cdot \sin \beta$
C. $\sin \alpha \cdot \sin \beta + \cos \alpha \cdot \cos \beta$
D. $\sin \alpha \cdot \cos \beta - \cos \alpha \cdot \sin \beta$
- $\cot 210^\circ = \underline{\hspace{2cm}}$
37 A. 1
B. -1
C. 0
D. $\sqrt{3}$
- $\cot 210^\circ = \underline{\hspace{2cm}}$
37 A. 1
B. -1
C. 0
D. $\sqrt{3}$
- For ΔABC , $\sin(B + C) = \underline{\hspace{2cm}}$
38 A. $\sin A$
B. $\sin B$
C. $\sin C$
D. π
- ΔABC , $\sin(B + C) = \underline{\hspace{2cm}}$
38 A. $\sin A$
B. $\sin B$
C. $\sin C$
D. π
- If $\alpha = \frac{\pi}{2}$ then $\cos 2\alpha = \underline{\hspace{2cm}}$
39 A. 1
B. -1
C. $\frac{1}{\sqrt{2}}$
D. 0
- $\cos 2\alpha = \underline{\hspace{2cm}}$
39 A. 1
B. -1
C. $\frac{1}{\sqrt{2}}$
D. 0
- If $\tan \alpha = \frac{1}{2}$ and $\tan \beta = \frac{1}{3}$ then $\tan(\alpha + \beta) = \underline{\hspace{2cm}}$
40 A. 1
B. $\frac{\sqrt{3}}{2}$
C. $\frac{1}{\sqrt{2}}$
D. 0
- $\tan(\alpha + \beta) = \underline{\hspace{2cm}}$
40 A. 1
B. $\frac{\sqrt{3}}{2}$
C. $\frac{1}{\sqrt{2}}$
D. 0
- $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right) = \underline{\hspace{2cm}}$
41 A. $\frac{\pi}{6}$
B. $\frac{\pi}{3}$

- C. $\frac{\pi}{2}$ D. π
- $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right) = \underline{\hspace{2cm}}$
- 41 A. $\frac{\pi}{6}$ B. $\frac{\pi}{3}$
 C. $\frac{\pi}{2}$ D. π
- The range of \cos function is
- 42 A. $[-1,1]$ B. $(-1,1)$
 C. $R - (-1,1)$ D. R
- \cos વિષેયનો વિસ્તાર = $\underline{\hspace{2cm}}$
- 42 A. $[-1,1]$ B. $(-1,1)$
 C. $R - (-1,1)$ D. R
- $2\cos\theta \cdot \sin\theta = \underline{\hspace{2cm}}$
- 43 A. $\sin 3\theta$ B. $2\sin\theta$
 C. $\sin 2\theta$ D. $\sin 4\theta$
- $2\cos\theta \cdot \sin\theta = \underline{\hspace{2cm}}$
- 43 A. $\sin 3\theta$ B. $2\sin\theta$
 C. $\sin 2\theta$ D. $\sin 4\theta$
- If $\sec\theta = \frac{3}{2}$ then $\tan\theta = \underline{\hspace{2cm}}$
- 44 A. $\frac{\sqrt{13}}{2}$ B. $\frac{\sqrt{5}}{2}$
 C. $\frac{9}{4}$ D. 2
- જે $\sec\theta = \frac{3}{2}$ હી તો $\tan\theta = \underline{\hspace{2cm}}$
- 44 A. $\frac{\sqrt{13}}{2}$ B. $\frac{\sqrt{5}}{2}$
 C. $\frac{9}{4}$ D. 2
- $2\pi^c = \underline{\hspace{2cm}}$
- 45 A. 180° B. 270°
 C. 360° D. 540°
- $2\pi^c = \underline{\hspace{2cm}}$
- 45 A. 180° B. 270°
 C. 360° D. 540°
- $\tan 315^\circ = \underline{\hspace{2cm}}$
- 46 A. -1 B. $\frac{1}{2}$
 C. 0 D. $\frac{\sqrt{3}}{2}$
- $\tan 315^\circ = \underline{\hspace{2cm}}$
- 46 A. -1 B. $\frac{1}{2}$
 C. 0 D. $\frac{\sqrt{3}}{2}$
- X and Y are mutually perpendicular if angle between them is $\underline{\hspace{2cm}}$
- 47 A. 0 B. $\frac{\pi}{2}$
 C. π D. 2π
- X અને Y પરસ્પર લંબ હોય તો તેમની વચ્ચે નો ખૂણો $\underline{\hspace{2cm}}$
- 47 A. 0 B. $\frac{\pi}{2}$
 C. π D. 2π

- If $\bar{x} = (1, 2, -3)$, $\bar{y} = (2, -1, 4)$ then $\bar{x} \times \bar{y} =$
- 48 A. (-5, -10, -5) B. (-5, 10, -5)
 C. (5, -10, -5) D. None of the above
- જેવી કોઈ પણ નથી.
- જેવી કોઈ પણ નથી.
- 48 A. (-5, -10, -5) B. (-5, 10, -5)
 C. (5, -10, -5) D. જેવના માંથી કોઈ પણ નથી.
- $(\bar{i} - 2\bar{j} + \bar{k}) \cdot (\bar{4i} - 4\bar{j} + 7\bar{k}) = \underline{\hspace{2cm}}$
- 49 A. -19 B. -5
 C. 19 D. 5
- $(\bar{i} - 2\bar{j} + \bar{k}) \cdot (\bar{4i} - 4\bar{j} + 7\bar{k}) = \underline{\hspace{2cm}}$
- 49 A. -19 B. -5
 C. 19 D. 5
- If the angle between two vectors \bar{x} and \bar{y} is θ then $\sin \theta = \underline{\hspace{2cm}}$
- 50 A. $|\bar{x} \cdot \bar{y}|$ B. $|\bar{x} \times \bar{y}|$
 C. $\frac{\bar{x} \times \bar{y}}{|\bar{x}| |\bar{y}|}$ D. $\frac{\bar{x} \cdot \bar{y}}{|\bar{x}| |\bar{y}|}$
- જો બે સંદર્ભો \bar{x} અને \bar{y} વચ્ચેનો ખુણો θ હોય તો $\sin \theta = \underline{\hspace{2cm}}$
- 50 A. $|\bar{x} \cdot \bar{y}|$ B. $|\bar{x} \times \bar{y}|$
 C. $\frac{\bar{x} \times \bar{y}}{|\bar{x}| |\bar{y}|}$ D. $\frac{\bar{x} \cdot \bar{y}}{|\bar{x}| |\bar{y}|}$
- If \bar{a} is unit vector then $|\bar{a}| = \underline{\hspace{2cm}}$
- 51 A. 1 B. -1
 C. 0 D. 2
- જો \bar{a} એકમ સંદર્ભ હોય તો $|\bar{a}| = \underline{\hspace{2cm}}$
- 51 A. 1 B. -1
 C. 0 D. 2
- If $(2, -3, 5) \cdot (m, -6, -8) = 0$ then $m = \underline{\hspace{2cm}}$
- 52 A. -11 B. -22
 C. 22 D. 11
- જેવી $(2, -3, 5) \cdot (m, -6, -8) = 0$ કેવી મ = $\underline{\hspace{2cm}}$
- 52 A. -11 B. -22
 C. 22 D. 11
- $\underline{\hspace{2cm}}$ is not a unit vector
- 53 A. (1, 0, 0) B. (0, 1, 0)
 C. $\left(0, \frac{1}{2}, \frac{1}{2}\right)$ D. (0, 0, 1)
- $\underline{\hspace{2cm}}$ એકમ સંદર્ભ નથી.
- 53 A. (1, 0, 0) B. (0, 1, 0)
 C. $\left(0, \frac{1}{2}, \frac{1}{2}\right)$ D. (0, 0, 1)
- Angle between vector $x = (1, -1, 0)$ and $y = (1, 0, 1)$ is $\underline{\hspace{2cm}}$
- 54 A. $\frac{\pi}{3}$ B. $\frac{\pi}{2}$
 C. π D. None of the above
- સંદર્ભો $x = (1, -1, 0)$ અને $y = (1, 0, 1)$ વચ્ચે નો ખુણો $\underline{\hspace{2cm}}$
- 54 A. $\frac{\pi}{3}$ B. $\frac{\pi}{2}$
 C. π D. None of the above
- $| (1, 0, 1) + (1, 1, 1) | = \underline{\hspace{2cm}}$
- 55 A. $\sqrt{9}$ B. $\sqrt{8}$
 C. 9 D. 8
- $| (1, 0, 1) + (1, 1, 1) | = \underline{\hspace{2cm}}$

- A. $\sqrt{9}$ B. $\sqrt{8}$
C. 9 D. 8
- $\bar{a} = 2\bar{i} - \bar{j} + \bar{k}$ and $\bar{b} = \bar{i} + \bar{j} + \bar{k}$ then $\bar{a} \cdot \bar{b} = \underline{\hspace{2cm}}$
- 56 A. -2 B. 2
C. 1 D. 0
- $\bar{a} = 2\bar{i} - \bar{j} + \bar{k}$ અને $\bar{b} = \bar{i} + \bar{j} + \bar{k}$ એટા $\bar{a} \cdot \bar{b} = \underline{\hspace{2cm}}$
- 56 A. -2 B. 2
C. 1 D. 0
- $\bar{x} = (2, -3, 1)$ then $|\bar{x}| = \underline{\hspace{2cm}}$
- 57 A. $\sqrt{14}$ B. $\sqrt{41}$
C. 14 D. 41
- $\bar{x} = (2, -3, 1)$ then $|\bar{x}| = \underline{\hspace{2cm}}$
- 57 A. $\sqrt{14}$ B. $\sqrt{41}$
C. 14 D. 41
- If \bar{a} and \bar{b} are unit vector and $\bar{a} \cdot \bar{b} = 0$ then $|\bar{a} + \bar{b}| = \underline{\hspace{2cm}}$
- 58 A. 2 B. $\sqrt{2}$
C. 1 D. 0
- જો \bar{a} અને \bar{b} એકમ સંદર્ભો હોય અને $\bar{a} \cdot \bar{b} = 0$ એટા $|\bar{a} + \bar{b}| = \underline{\hspace{2cm}}$
- 58 A. 2 B. $\sqrt{2}$
C. 1 D. 0
- If \bar{F} denotes the force applied to a particle and \bar{d} denotes the displacement of the particle in the direction of \bar{F} then work done $W = \underline{\hspace{2cm}}$
- 59 A. $\bar{F} \times \bar{d}$ B. $\bar{d} \times \bar{F}$
C. $\bar{d} \cdot \bar{F}$ D. None of the above
- જો \bar{F} કળું પર લાગતું બળ હોય અને \bar{d} એ બળ \bar{F} ની દિશમાં થયેલું સ્થાનાનંતર હોય તો થયેલ કાર્ય $W = \underline{\hspace{2cm}}$
- 59 A. $\bar{F} \times \bar{d}$ B. $\bar{d} \times \bar{F}$
C. $\bar{d} \cdot \bar{F}$ D. આમાંથી કોઈપણ નહિ
- If $\bar{x} \cdot \bar{y} = 0$ then \bar{x} and \bar{y} are $\underline{\hspace{2cm}}$ vectors
- 60 A. Parallel B. perpendicular
C. Unit D. Parallel unit
- If $\bar{x} \cdot \bar{y} = 0$ then \bar{x} and \bar{y} are $\underline{\hspace{2cm}}$ vectors
- 60 A. Parallel B. perpendicular
C. Unit D. Parallel unit
- Area of circle made from 4π cm. Long wire is $\underline{\hspace{2cm}}$ cm²
- 61 A. 61π B. 4π
C. 16π D. 2π
- 4π cm વંબાઈના તારમાંથી બનાવેલ વર્તુળનું ક્ષેત્રફળ $\underline{\hspace{2cm}}$ cm²
- 61 A. 61π B. 4π
C. 16π D. 2π
- The total surface area of sphere is $\underline{\hspace{2cm}}$
- 62 A. πr^2 B. $2\pi r^2$
C. $3\pi r^2$ D. $4\pi r^2$
- ગોળાની કૂલ સપાટીનું ક્ષેત્રફળ $\underline{\hspace{2cm}}$
- 62 A. πr^2 B. $2\pi r^2$
C. $3\pi r^2$ D. $4\pi r^2$
- Volume of cylinder = $\underline{\hspace{2cm}}$ Volume of cone
- 63 A. 9 B. $\frac{1}{3}$
C. 6 C. $\frac{1}{3}$
- 63 નળાકરનું ધનકળ = $\underline{\hspace{2cm}}$ શંકુનું ધનકળ

- | | | | |
|----|---|----|---------------|
| A. | 9 | B. | $\frac{1}{3}$ |
| C. | 6 | C. | 3 |
| 64 | If the area of base of cube is 16 cm^2 then the volume of cube is _____ cm^3 | | |
| A. | 64 | B. | 16 |
| C. | 8 | D. | 32 |
| 64 | જો સમધનના તળિતયાનું ક્ષેત્રકૃતી 16 ચો.સે.મી. છે તો તેનું ધનકૃતી _____ ધન.સે.મી | | |
| A. | 64 | B. | 16 |
| C. | 8 | D. | 32 |
| 65 | The formula for the volume of a hemisphere is _____ . | | |
| A. | $4\pi r^2$ | B. | $4\pi r^3$ |
| C. | $\frac{2}{3}\pi r^3$ | D. | $2\pi r^2$ |
| 65 | અર્ધગોળા નું ધનકૃતી = _____ . | | |
| A. | $4\pi r^2$ | B. | $4\pi r^3$ |
| C. | $\frac{2}{3}\pi r^3$ | D. | $2\pi r^2$ |
| 66 | If radius of a circle is 7 cm. Then area of circle is _____ sq. Cm | | |
| A. | 154 | B. | 156 |
| C. | 153 | D. | 150 |
| 66 | જો વર્તુળનો વિજયા 7 સે.મી. હોય તો તેનું ક્ષેત્રકૃતી _____ ચો. સે.મી. | | |
| A. | 154 | B. | 156 |
| C. | 153 | D. | 150 |
| 67 | Area of rectangle with length 25 cm. And width 8 cm. is _____ sq.cm | | |
| A. | 2,000 | B. | 20 |
| C. | 2 | D. | 200 |
| 67 | જો લંબચોરસની લંબાઈ 25 સે.મી અને પહોળાઈ 8 સે.મી હોય તેનું ક્ષેત્રકૃતી _____ ચો.સે.મી. | | |
| A. | 2,000 | B. | 20 |
| C. | 2 | D. | 200 |
| 68 | The area of square is 625 sq. cm. then perimeter of square = _____ | | |
| A. | 10cm | B. | 50cm |
| C. | 100cm | D. | 20 cm |
| 68 | The area of square is 625 sq. cm. then perimeter of square = _____ | | |
| A. | 10cm | B. | 50cm |
| C. | 100cm | D. | 20 cm |
| 69 | If the circumference of circle is 88 cm then the area of circle is _____ cm^2 . | | |
| A. | 661 | B. | 616 |
| C. | 166 | D. | 161 |
| 69 | જો વર્તુળ નો પરીપુરી 88 સે.મી હોય તો તેનું ક્ષેત્રકૃતી _____ ચો.સે.મી. | | |
| A. | 661 | B. | 616 |
| C. | 166 | D. | 161 |
| 70 | Volume of cone with radius r and height h is _____ | | |
| A. | $\frac{1}{3}\pi r^2 h$ | B. | $r^2 h$ |
| C. | $2\pi r h$ | D. | $2\pi r^2 h$ |
| 70 | જો શંકુની વિજયા r અને ઊંચાઈ h તો તેનું ધનકૃતી _____ | | |
| A. | $\frac{1}{3}\pi r^2 h$ | B. | $r^2 h$ |
| C. | $2\pi r h$ | D. | $2\pi r^2 h$ |