

Ques No.	Question
1 - 7153	<p>If w is a non real cube root of unity, then minimum value of $a + bw + cw^2$ is (If a,b,c are not equal): (A) 0 (B) $\frac{\sqrt{3}}{2}$ (C) 1 (D) 2</p> <p>Watch Free Video Solution on Doubtnut</p>
2 - 7506	<p>If $k > 0$, $z = w = k$, and $\alpha = \frac{z - \bar{w}}{k^2 + z\bar{w}}$, then $Re(\alpha)$ (A) 0 (B) $\frac{k}{2}$ (C) k (D) None of these</p> <p>Watch Free Video Solution on Doubtnut</p>
3 - 8716	<p>If $z^7 + 1 = 0$ then $\cos\left(\frac{\pi}{7}\right)\cos\left(\frac{3\pi}{7}\right)\cos\left(\frac{5\pi}{7}\right)$ is (A) $\frac{1}{8}$ (B) $-\frac{1}{8}$ (C) $\frac{1}{2\sqrt{2}}$ (D) $\frac{1}{2}$</p> <p>Watch Free Video Solution on Doubtnut</p>
4 - 8788	<p>$f(n) = \cot^2\left(\frac{\pi}{n}\right) + \cot^2\frac{2\pi}{n} + \dots + \cot^2\frac{(n-1)\pi}{n}$, ($n > 1, n \in N$)</p> <p>then $\lim_{n \rightarrow \infty} \frac{f(n)}{n^2}$ is equal to (A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{2}{3}$ (D) 1</p> <p>Watch Free Video Solution on Doubtnut</p>

5 - 10008

If z_1 and \bar{z}_1 represent adjacent vertices of a regular polygon of n sides where centre is origin and if $\frac{Im(z)}{Re(z)} = \sqrt{2} - 1$, then n is equal to: (A) 8 (B) 16 (C) 24 (D) 32

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6 - 12289

Area of triangle formed by the vertices z , ωz and $z + \omega z$ is $\frac{4}{\sqrt{3}}$, ω is complex cube roots of unity then $|z|$ is (A) 1 (B) $\frac{4}{3}$ (C) $\frac{3}{4}$ (D)

$$\frac{4}{\sqrt{3}}$$

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7 - 12306

In Argand diagram all the complex numbers z satisfying $|z - 4i| + |z + 4i| = 10$ lie on a (A) straight line (B) circle (C) ellipse (D) parabola

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If z_1 , and z_2 , are purely real then $z_1, z_2, \bar{z}_1, \bar{z}_2$ form (A)

8 - 12316

Parallelogram (B) square (C) rhombus (D) straight line

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If ω is a complex cube root of unity, then the value of the expression

9 - 12318

$$1(2 - \omega)(2 - \omega^2) + 2(3 - \omega)(3 - \omega^2) + \dots + (n - 1)(n - \omega)(n - \omega^2) \quad (n \geq 2)$$

is equal to (A) $\frac{n^2(n+1)^2}{4} - n$ (B) $\frac{n^2(n+1)^2}{4} + n$ (C) $\frac{n^2(n+1)}{4} - n$ (D) $\frac{n(n+1)^2}{4} - n$

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10 - 12561

If $z = 2 - i\sqrt{3}$ then $z^4 - 4z^2 + 8z + 35$ is (A) 6 (B) 0 (C) 1 (D)

2

The number of solutions of equation

11 - 13826 $|z|^2 - (3 + i)z - (3 - i)\bar{z} - 6 = 0$ is (A) 0 (B) 1 (C) 2 (D) ∞

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If ω is a cube root of unity and $(\omega - 1)^7 = A + B\omega$ then find the values of A' and B' (A) 0,1 (B) 1,1 (C) 1,0 (D) -1,1

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The smallest positive integer n for which $\left(\frac{1+i}{1-i}\right)^n = i$ is (A) 8
13 - 28744 (B) 16 (C) 12 (D) None of these

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If $x = \omega - \omega^2 - 2$ then , the value of

14 - 29013 $x^4 + 3x^3 + 2x^2 - 11x - 6$ is (where ω is a imaginary cube root of unity) (A) 1 (B) $\omega - 1$ (C) ω^2 (D) ω

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15 - 29177 If $x^2 + x + 1 = 0$ then the value of

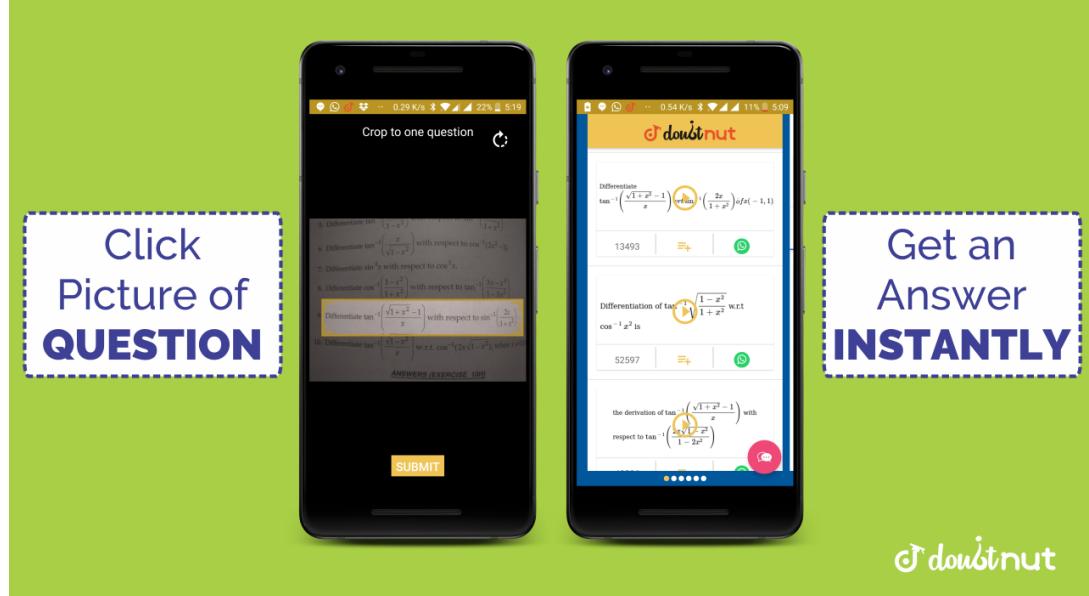
$$\left(x + \frac{1}{x}\right)^2 + \left(x^2 + \frac{1}{x^2}\right)^2 + \dots + \left(x^{27} + \frac{1}{x^{27}}\right)^2 \text{ is (A) 27}$$

(B) 72 (C) 45 (D) 54

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$\left(\frac{4i^3 - i}{2i + 1} \right)^2$ can be expressed in $a + ib$ as (A) $3 + 4i$ (B) $3 - 4i$
(C) $4 + 3i$ (D) $4 - 3i$

16 - 37026

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17 - 42400

If complex number $\frac{3 + 2i \sin x}{1 - 2i \sin x}$ is purely imaginary then $x =$ (A)
 $n\pi \pm \frac{\pi}{6}$ (B) $np \pm \frac{\pi}{3}$ (C) $2n\pi \pm \frac{\pi}{3}$ (D) $2n\pi \pm \frac{\pi}{6}$

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18 - 43936

The image of a complex number z in the imaginary axis is (A) z (B)
 iz (C) $-z$ (D) $-iz$

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The common roots of the equation $z^3 + 2z^2 + 2z + 1 = 0$ and $z^{1985} + z^{100} + 1 = 0$ are: (A) 1, ω (B) 1, ω^2 (C) ω, ω^2 (D) none of these

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$$[3(\cos 40 + i \sin 40)] \cdot [4(\cos 80 + i \sin 80)] = \text{(A)} -1 + \sqrt{3}i \\ \text{(B)} 4[-1 + \sqrt{3}i] \text{ (C)} 2[-1 + \sqrt{3}i] \text{ (D)} 6[-1 + \sqrt{3}i]$$

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If $\left| Z - \frac{4}{Z} \right| = 2$, then maximum value of $|z|$ is (A) $\sqrt{5}$ (B) $\sqrt{5} + 1$ (C) $\sqrt{5} - 1$ (D) $1 - \sqrt{5}$

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If $z = \cos \theta + i \sin \theta$, then the value of $\frac{z^{2n} - 1}{z^{2n} + 1}$ (A) $i \tan n\theta$ (B) $\tan n\theta$ (C) $i \cot n\theta$ (D) $-i \tan n\theta$

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If z_1, z_2, z_3 are 3 distinct complex numbers such that

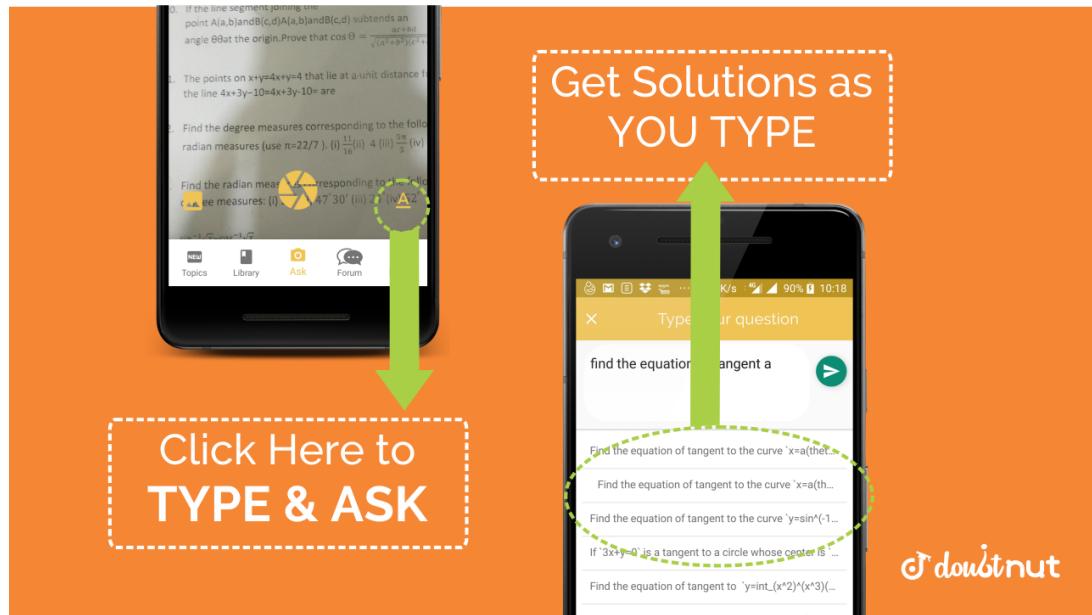
$$\frac{3}{|z_2 - z_3|} - \frac{4}{|z_3 - z_1|} = \frac{5}{|z_1 - z_2|} \text{ then the value of}$$

$$\frac{9}{z_2 - z_3} + \frac{16}{z_3 - z_1} + \frac{25}{z_1 - z_2}$$

equals (A) 0 (B) $\sqrt{5}$ (C) 5 (D) 25

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The value of $\sum_{n=1}^{13} (i^n + i^{n+1})$, where $i = \sqrt{-1}$ equals (A) i (B) $i - 1$ (C) $-i$ (D) 0

24 - 51652

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If $\sum \cos A = \sum \sin A = 0$ then find the value of

25 - 57111

$x^{\sin(2A-B-C)} x^{\sin(2B-C-A)} x^{\sin(2C-A-B)}$ is (A) 1 (B) 0 (C) 3

(D) -3

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26 - 57650

If $z^4 + 1 = \sqrt{3}i$ (A) z^3 is purely real (B) z represents the vertices of a square of side $2^{\frac{1}{4}}$ (C) z^9 is purely imaginary (D) z represents

the vertices of a square of side $2^{\frac{3}{4}}$

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Let z_1 and z_2 be complex numbers such that $z_1 \neq z_2$ and

$|z_1| = |z_2|$ If z_1 has positive real part and z_2 has negative

27 - 58763
imaginary part then $\frac{z_1 + z_2}{z_1 - z_2}$ may be (A) zero (B) real and positive

(C) real and negative (D) purely imaginary

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If $|z| = 1$ and $w = \frac{z - 1}{z + 1}$ (where $z \neq -1$) then $Re(w)$ is (A) 0

28 - 59908
(B) $-\frac{1}{|z + 1|^2}$ (C) $\left| \frac{z}{z + 1} \right| \frac{1}{|z + 1|^2}$ (D) $\frac{\sqrt{2}}{|z + 1|^2}$

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If $|z_1| = 2, |z_2| = 3, |z_3| = 4$ and $|2z_1 + 3z_2 + 4z_3| = 4$ then

the expression $|8z_2z_3 + 27z_3z_1 + 64z_1z_2|$ equals (A) 72 (B) 24

29 - 66968

(C) 96 (D) 92

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30 - 69173

The complex number z having least positive argument which satisfy

the condition $|z - 25i| \leq 15$ is (A) $25i$ (B) $12 + 5i$ (C) $16 + 12i$

(D) $12 + 16i$

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If $\frac{1 - ix}{1 + ix} = a - ib$ and $a^2 + b^2 = 1$, where

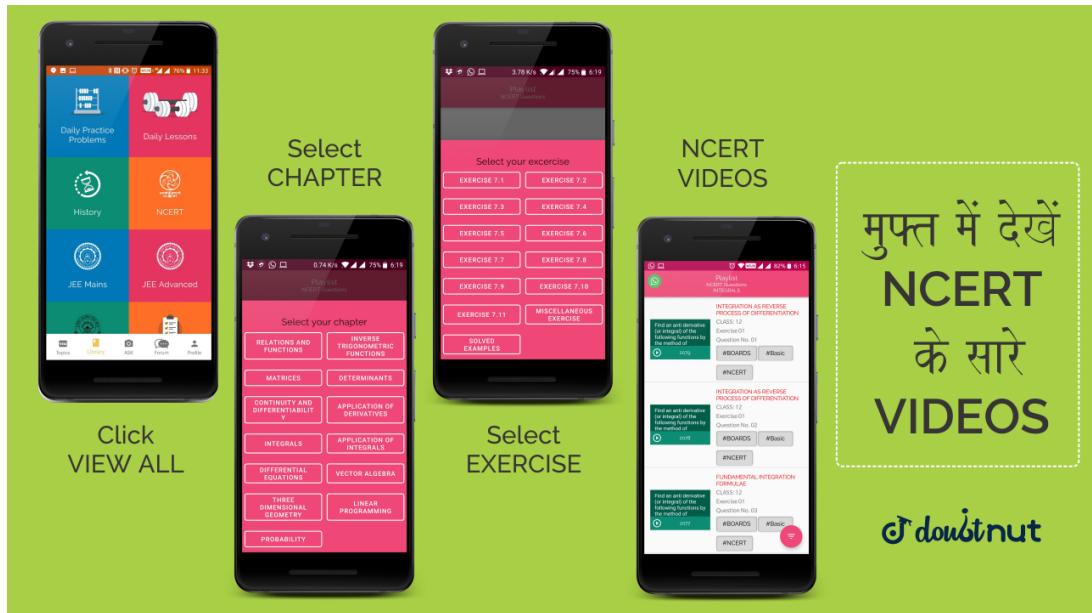
$a, b \in R$ and $i = \sqrt{-1}$, then x is equal to (A) $\frac{2a}{(1+a)^2 + b^2}$

(B) $\frac{2b}{(1+a)^2 + b^2}$ (C) $\frac{2a}{(1+b)^2 + a^2}$ (D) $\frac{2b}{(1+b)^2 + a^2}$

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31 - 71010

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What is the value of $z^2 + (\bar{z})^2 + 2|z|^2$, if $z = 3 + 2i$? (A) 36 (B)

81+12i (C) 39 (D) 40+12i

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32 - 76525

If $(a + ib)^5 + \alpha + i\beta$ then $(b + ia)^5$ is equal to
 (A) $\beta - i\alpha$ (B) $\beta + i\alpha$
 (C) $\alpha - i\beta$ (D) $-\alpha - i\beta$

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If $|z| = 3$ then $\left(\frac{9+z}{1+\bar{z}}\right)$ equals
 (A) z (B) \bar{z} (C) $3z$ (D) $z + \bar{z}$

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If $\frac{5z_2}{7z_1}$ is purely imaginary, then $\left|\frac{2z_1 + 3z_2}{2z_1 - 3z_2}\right| =$
 (A) $\frac{5}{7}$ (B) $\frac{7}{9}$ (C)
 $\frac{25}{49}$ (D) 1

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If $\omega \neq 1$ is a cube root of unity satisfying

$$\frac{1}{a+w} + \frac{1}{b+w} + \frac{1}{c+w} = 2w^2 \text{ and } \frac{1}{a+w^2} + \frac{1}{b+w^2} + \frac{1}{c+w^2} = 2w$$

then the value of $\frac{1}{a+1} + \frac{1}{b+1} + \frac{1}{c+1}$ is
 (A) 2 (B) -2 (C) ω^2 (D) ω

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If $x + \frac{1}{x} = 1$ then $x^{20} + x^{30} + x^{40} =$
 (A) 6 (B) 5 (C) 0 (D) 2

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Let A, B, C be three sets of complex number as defined below:

$$A = \{z : Im > 1\}, B = \{z : |z - 2| = 3\}, C \\ : \{z : Re((1 - i)z) = \sqrt{2}\}$$

The number of elements in the set $A \cap B \cap C$ is (A) 0 (B) 1 (C) 2

(D) ∞

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If A and B be two complex numbers such that

$$|1 - A'B|^2 - |A - B|^2 = K(1 - |A|^2)(1 - |B|^2) \text{ then the value of } k \text{ is (A) 1 (B) 2 (C) } \frac{1}{2} \text{ (D) } \frac{1}{3}$$

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If $\left(\frac{z^2}{z-1}\right)$ is purely real, then locus of z is (A) real axis (B) imaginary axis (C) circle (D) real axis or circle

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41 - 361934

If $x = 2 + 5i$ (where $i^2 = -1$) and

$$2\left(\frac{1}{1!9!} + \frac{1}{3!7!}\right) + \frac{1}{5!5!} = \frac{2^a}{b!} \text{ then the value of}$$

$x^3 - 5x^2 + 33x - 19$ is equal to (A) 4 (B) 6 (C) 8 (D) 10

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42 - 386925

If $1 + x^2 = \sqrt{3}x$, then $\sum_{n=1}^{24} \left(x^n - \frac{1}{x^n}\right)$ is equal to (A) 48 (B) -48 (C) $\pm 48(\omega - \omega^2)$ (D) none of these

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43 - 1171481

The number solutions of the equation $|z|^2 + 4\bar{z} = 0$ (A) 2 (B) 4 (C) 6 (D) 3

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44 - 1228115

If $z_k = \cos\left(\frac{k\pi}{10}\right) + i \sin\left(\frac{k\pi}{10}\right)$, then $z_1 z_2 z_3 z_4$ is equal to (A) -1 (B) 2 (C) -2 (D) 1

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If $(a_1 + ib_1)(a_2 + ib_2) \dots (a_n + ib_n) = A + iB$, then

$(a_1^2 + b_1^2)(a_2^2 + b_2^2) \dots (a_n^2 + b_n^2)$ is equal to (A) 1 (B)

45 - 1228122

(A² + B²) (C) (A + B) (D) $\left(\frac{1}{A^2} + \frac{1}{B^2} \right)$

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If one of the cube roots of 1 be ω , then

46 - 1248672

1	1 + ω^2	ω^2
1 - i	-1	$\omega^2 - 1$
-i	-1 + ω	-1

 (A) ω (B) i (C) 1 (D) 0

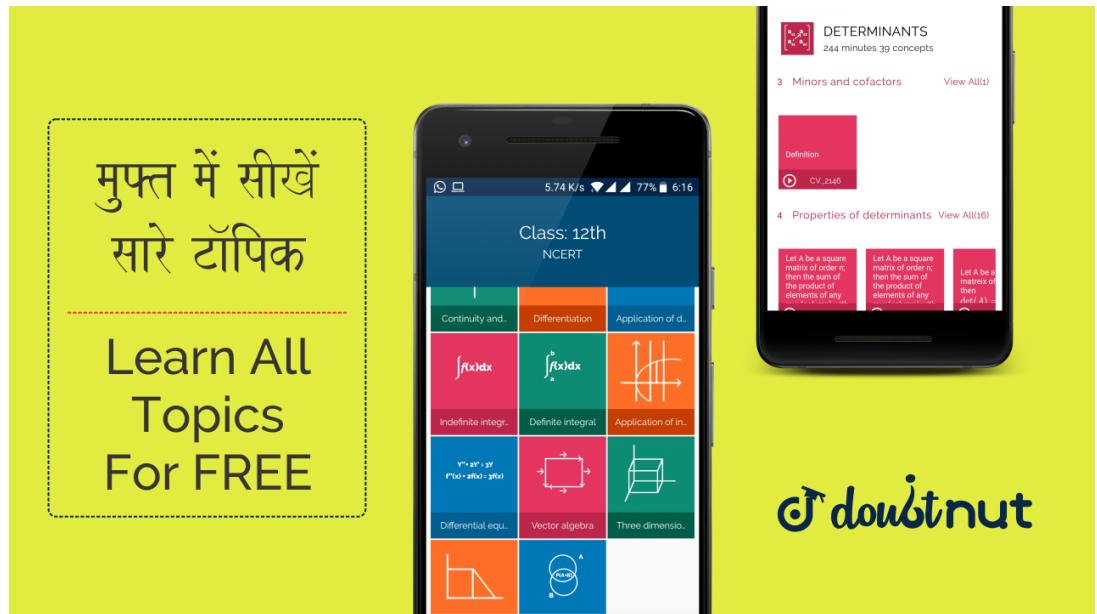
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47 - 1300201

If $x + y + z + w = 0$ then value of

$x^3 + y^3 + z^3 + w^3 + 3(y + z)(z + x)(x + y) =$ (A) 0 (B) 1
(C) 2 (D) 3

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For $n \geq 3$, the n roots of unity form (A) a H.P (B) an A.P (C) a G.P

(D) None of these

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48 - 3280373

If $\cos A + \cos B + \cos C = 0, \sin A + \sin B + \sin C = 0$ and

$A + B + C = 180^\circ$, then the value of

$\cos 3A + \cos 3B + \cos 3C$ is (A) 3 (B) -3 (C) $\sqrt{3}$ (D) 0

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49 - 3306502

If $a = \cos \theta + i \sin \theta, b = \cos \phi + i \sin \phi, c = \cos \psi + i \sin \psi$

and $\frac{a}{b} + \frac{b}{c} + \frac{c}{a} = 2$ then

$\sin(\theta - \phi) + \sin(\phi - \psi) + \sin(\psi - \theta)$ equals (A) 3 (B) 0 (C)

$-\frac{3}{2}$ (D) $\frac{3}{2}$

50 - 3445516

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51 - 3649931

If a and b are imaginary cube roots of unity, then $\alpha^n + \beta^n$ is equal to
(A) $2 \cos\left(\frac{2n\pi}{3}\right)$ (B) $\cos\left(\frac{2n\pi}{3}\right)$ (C) $2i \sin\left(\frac{2n\pi}{3}\right)$ (D)
 $i \sin\left(\frac{2n\pi}{3}\right)$

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52 - 3705003

The value of $\frac{a + b\omega + c\omega^2}{c + a\omega + b\omega^2} + \frac{a + b\omega + c\omega^2}{b + c\omega + a\omega^2}$ is equal to (A) 1
(B) 0 (C) 2 (D) -1

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53 - 4058623

z is a complex number such that $z + \frac{1}{z} = 2\cos 3^0$, then the value of $z^{2000} + \frac{1}{z^{2000}}$ is equal to (A) 0 (B) -1 (C) $\sqrt{3} + 1$ (D) $1 - \sqrt{3}$

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54 - 4971996

If w is complex cube root of unity, then

$\cos \left[\{(1-w)(1-w^2) + \dots + (10-w)(10-w^2)\} \frac{\pi}{100} \right]$
(A) -1 (B) 0 (C) 1 (D) $\sqrt{\frac{3}{2}}$

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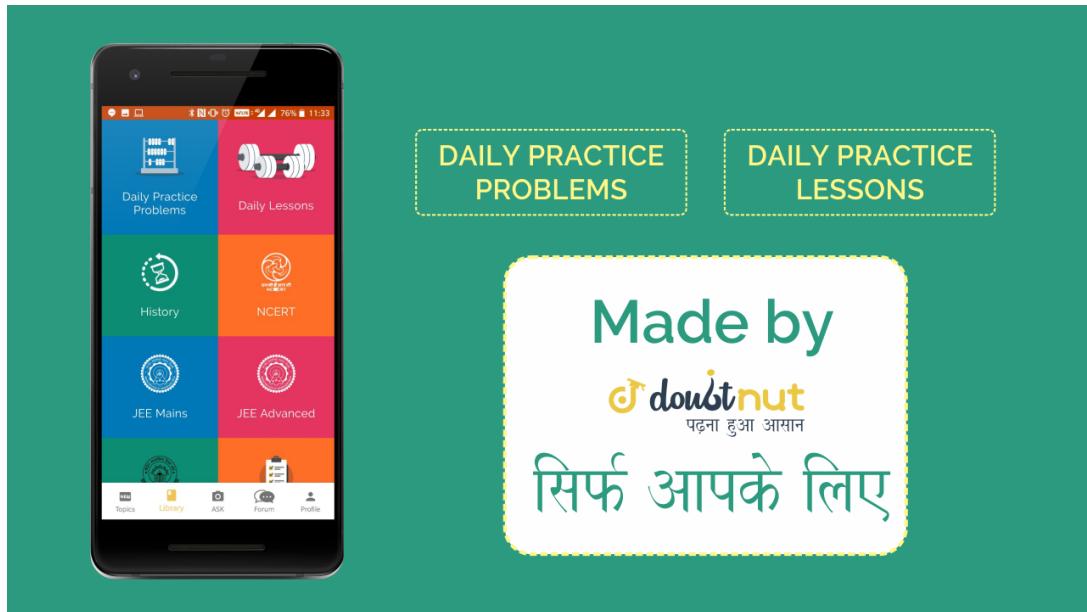
55 - 5044879

Let $z = 1 + ai$ be a complex number, $a > 0$, such that z^3 is a real number. Then the sum $1 + z + z^2 + \dots + z^{11}$ is equal to: (A)

$-1250\sqrt{3}i$ (B) $1250\sqrt{3}i$ (C) $1365\sqrt{3}i$ (D) $-1365\sqrt{3}i$

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If a, b, c are real numbers and z is a complex number such that,

$a^2 + b^2 + c^2 = 1$ and $b + ic = (1 + a)z$ then $\frac{1 + iz}{1 - iz}$ equals.

56 - 5574361

(A) $\frac{b - ic}{1 - ia}$ (B) $\frac{a + ib}{1 + c}$ (C) $\frac{1 - c}{a - ib}$ (D) $\frac{1 + a}{b + ic}$

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57 - 5608175

If

$$(3 + x^{2008} + x^{2009})^{2010} = a_0 + a_1x + a_2x^2 + \dots + a_nx^n,$$

then the value of

$$a_0 - \frac{1}{2}a_1 - \frac{1}{2}a_2 + a_3 - \frac{1}{2}a_4 - \frac{1}{2}a_5 + a_6 - \dots \text{ is (A)}$$

- 3^{2010} (B) 1 (C) 2^{2010} (D) none of these

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58 - 5765816

If $|z - 25i| \leq 15$, then value of $\max(\arg(z))$ is (A)

$$\frac{\pi}{2} + \sin^{-1}\left[\frac{4}{5}\right] \quad (\text{B}) \quad \pi + \sin^{-1}\left[\frac{3}{5}\right] \quad (\text{C}) \quad \pi + \sin^{-1}\left[\frac{4}{5}\right] \quad (\text{D})$$
$$\frac{\pi}{2} + \sin^{-1}\left[\frac{3}{5}\right]$$

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59 - 6101302

If $x = a + b$, $y = a\gamma + b\beta$ and $z = a\beta + b\gamma$, where γ and β

are the imaginary cube roots of unity, then $xyz =$ (A)

$$(a^2 + b^2)(a + b) \quad (\text{B}) \quad a^3 + b^3 \quad (\text{C}) \quad (a + b)^2(a - b) \quad (\text{D})$$
$$(a^2 - b^2)(a + b)$$

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60 - 6210358

The smallest positive integral value of n for which $(1 + \sqrt{3}i)^{\frac{n}{2}}$ is real is (A) 3 (B) 6 (C) 12 (D) 0

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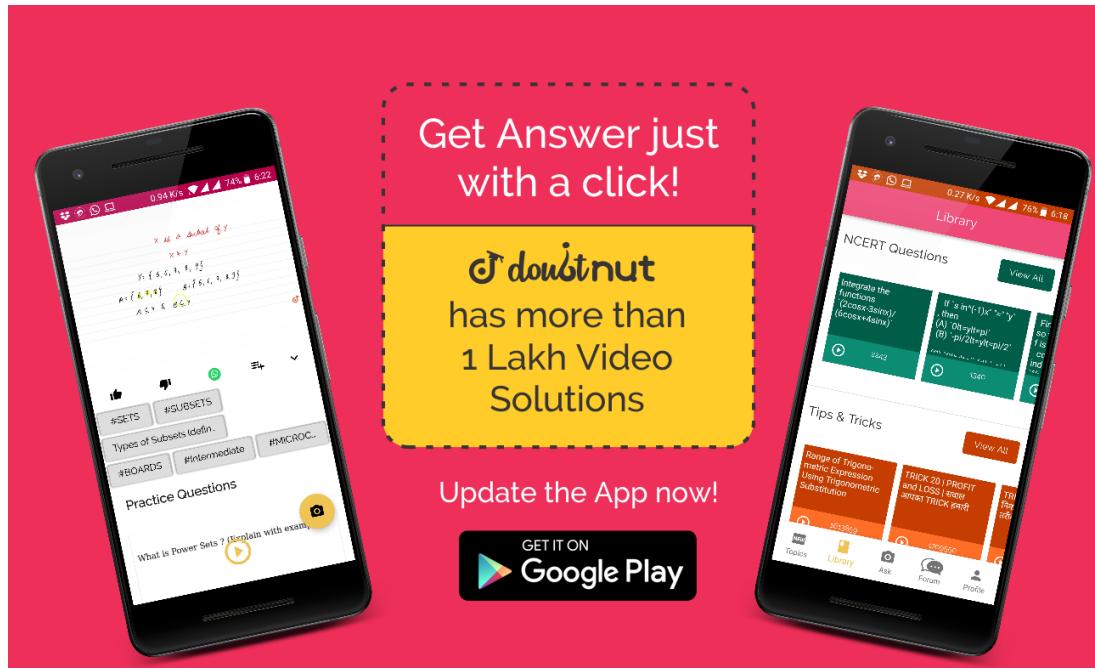
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3 - 8716	B Watch Free Video Solution of this Question on Doubnut
4 - 8788	C Watch Free Video Solution of this Question on Doubnut
5 - 10008	A Watch Free Video Solution of this Question on Doubnut
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20 - 45081	C Watch Free Video Solution of this Question on Doubtnut
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