

Ques No.	Question
1 - 27508	<p>If $f(x) = \frac{\sin([x]\pi)}{x^2 + x + 1}$ where $[.]$ denotes the greatest integer function, then (A) f is one-one (B) f is not one-one and not constant (C) f is a constant function (D) none of these</p> <p>⌚ Watch Free Video Solution on Doubtnut</p>
2 - 27574	<p>If $f(x) = \sin x + \cos x$ and $g(x) = x^2 - 1$, then $g(f(x))$ is invertible in the domain . (A) $\left[0, \frac{\pi}{2}\right]$ (B) $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$ (C) $\left[-\frac{\pi}{4}, \frac{\pi}{4}\right]$ (D) $[0, \pi]$</p> <p>⌚ Watch Free Video Solution on Doubtnut</p>
3 - 27786	<p>Given the function</p> $f(x) = \frac{a^x + a^{-x}}{2} \quad (\text{where } a > 2)$ <p>Then $f(x+y) + f(x-y) =$</p> <p>(A) $2f(x) \cdot f(y)$ (B) $f(x) \cdot f(y)$ (C) $\frac{f(x)}{f(y)}$ (D) none of these</p> <p>⌚ Watch Free Video Solution on Doubtnut</p>
4 - 27813	

If $g(x) = x^2 + x - 2$ and $\frac{1}{2}gof(x) = 2x^2 - 5x + 2$, then

which is not a possible $f(x)$? (A) $2x - 3$ (B) $-2x + 2$ (C)

$x - 3$ (D) None of these

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The sum of real roots of the equation

5 - 27976

$|x - 2|^2 + |x - 2| - 2 = 0$ is (A) 4 (B) 1 (C) 2 (D) -2

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6 - 35914

. A function $f: R^+ \rightarrow R^+$ defined as Then

$(f(xy))^2 = x(f(y))^2$ and $f(2) = 6$ then $f(100)$ is (A) 300 (B)

$30\sqrt{2}$ (C) $50\sqrt{2}$ (D) 100

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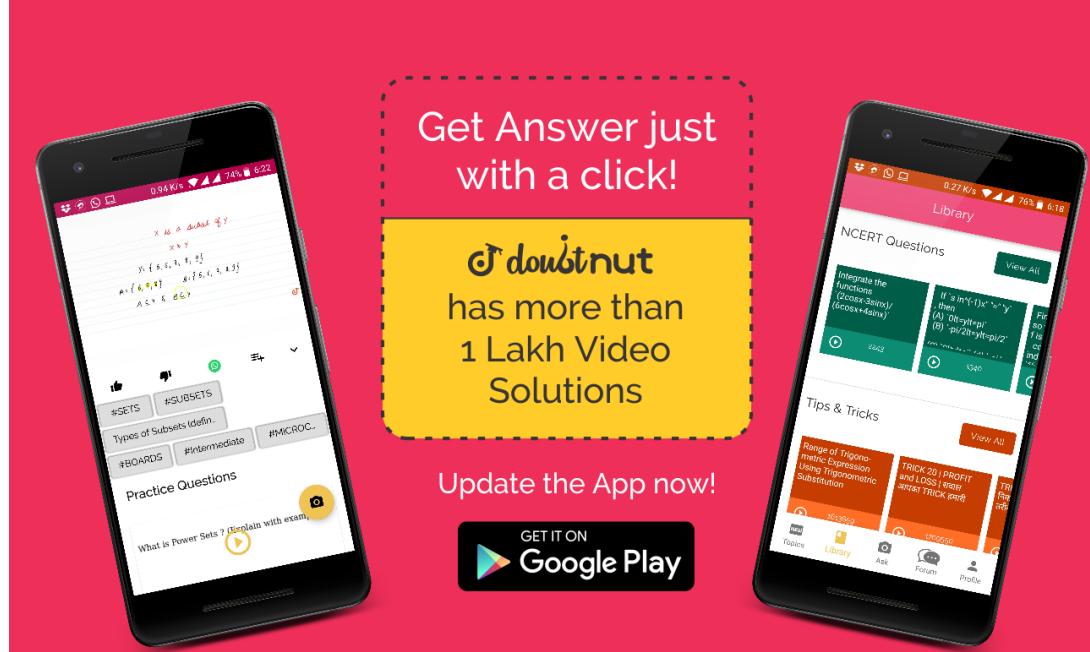
7 - 42879

Number of integers less than 15 satisfying the equation

$2^{|x+1|} - 2^x = |2^x - 1| + 1$ are (A) 14 (B) 15 (C) 16 (D) none

of these

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The minimum value of $|z| + |z - 1| + |z - 2|$ is (A) 0 (B) 1 (C)

8 - 45194

2 (D) 4

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Let $f(x)$ polynomial of degree 5 with leading coefficient unity such that $f(1) = 5, f(2) = 4, f(3) = 3, f(4) = 2, f(5) = 1$, then $f(6)$ is equal to (A) 0 (B) 24 (C) 120 (D) 720

9 - 47380

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10 - 50383

Let $f(x) = \frac{ax+b}{cx+d}$. Then the $fof(x) = x$, provided that :

$(a \neq 0, b \neq 0, c \neq 0, d \neq 0)$ (A) $d = -a$ (B) $d = a$ (C)

$a = b = c = d = 1$ (D) $a = b = 1$

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11 - 50387

If $f(x) = x^2 + x + \frac{3}{4}$ and $g(x) = x^2 + ax + 1$ be two real functions, then the range of a for which $g(f(x)) = 0$ has no real solution is (A) $(-\infty, -2)$ (B) $(-2, 2)$ (C) $(-2, \infty)$ (D) $(2, \infty)$

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12 - 50456

Let $f: R \rightarrow [1, \infty)$ be defined as

$f(x) = \log_{10} \left(\sqrt{3x^2 - 4x + k + 1} + 10 \right)$ If $f(x)$ is surjective

then $k =$ (A) $k = \frac{1}{3}$ (B) $k < \frac{1}{3}$ (C) $k > \frac{1}{3}$ (D) $k = 1$

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13 - 51495

(i) The positive value of k for which $ke^x - x = 0$ has only one

root is (ii) For $k > 0$, the set of all values of k for which

$ke^x - x = 0$ has two distinct roots, is (A) $\frac{1}{e}$ (B) 1 (C) e (D) $\log_e(2)$

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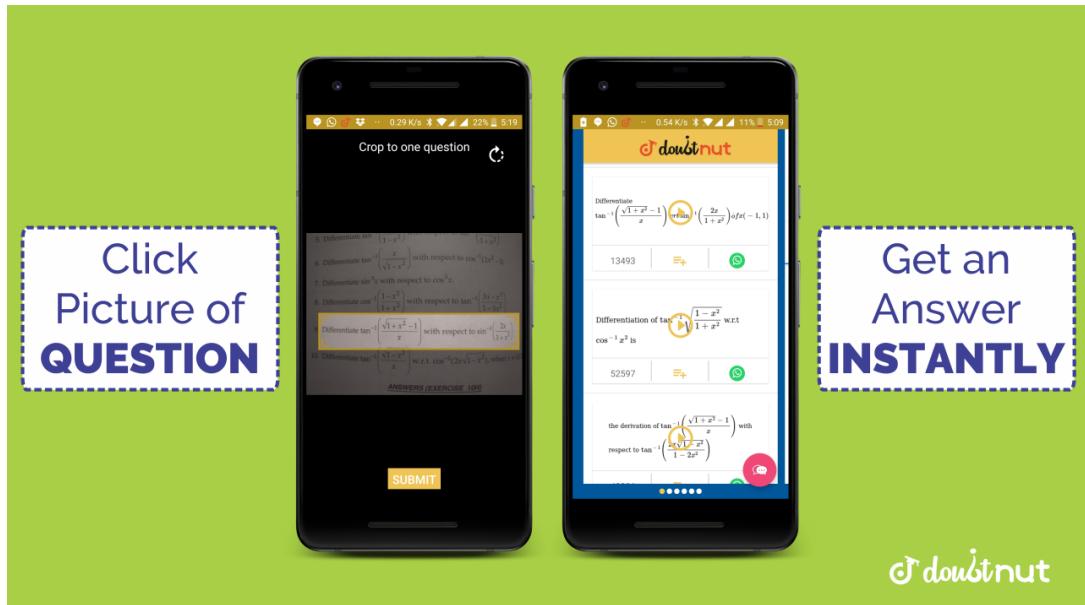
14 - 51974

If $f(x^2 - 6x + 6) + f(x^2 - 4x + 4) = 2x \forall x \in R$ then

$f(-3) + f(9) - 5f(1) =$ (A) 7 (B) 8 (C) 9 (D) 10

15 - 54403

If $x = \sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + \dots}}}}$, then the value of x is
 (A) $\frac{\sqrt{7} + 1}{2}$ (B) $\frac{\sqrt{6} + 1}{2}$ (C) $\frac{\sqrt{3} + 1}{2}$ (D) $\frac{\sqrt{5} + 1}{2}$



16 - 56125

Range of the function

$f(x) = \sqrt{\cos^{-1}\left(\sqrt{\log_4 x}\right)} - \frac{\pi}{2} + \sin^{-1}\left(\frac{1+x^2}{4x}\right)$ is equal to (A) $\left(0, \frac{\pi}{2} + \sqrt{\frac{\pi}{2}}\right]$ (B) $\left[\frac{\pi}{2}, \frac{\pi}{2} + \sqrt{\frac{\pi}{2}}\right]$ (C) $\left[\frac{\pi}{6}, \frac{\pi}{4}\right)$ (D) $\left\{\frac{\pi}{6}\right\}$

17 - 59279

If $x^3 f(x) = \sqrt{1 + \cos 2x} + |f(x)|$, $\frac{-3\pi}{4} < x < \frac{-\pi}{2}$ and

$f(x) = \frac{\alpha \cos x}{1 + x^3}$, then the value of α is (A) 2 (B) $\sqrt{2}$ (C) $-\sqrt{2}$

(D) 1

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Let $G(x) = \left(\frac{1}{a^x + 1} + \frac{1}{2} \right) F(x)$, where a is a positive real

number not equal to 1 and $F(x)$ is an odd function. Which of the

following statements is true? (A) $G(x)$ is an odd function (B) $G(x)$

18 - 59872

is an even function (C) $G(x)$ is neither even function nor odd

function (D) Whether $G(x)$ is an odd function or an even function,

depends on the value of α

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19 - 61117

The set of values of p for which the equation $|\ln x| - px = 0$

possess three distinct roots is (A) $\left(0, \frac{1}{e}\right)$ (B) $(0, 1)$ (C) $(1, e)$

(D) $(0, e)$

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20 - 62195

Let $f(x): R \rightarrow R$, $f(x) = \begin{cases} 2x + \alpha^2 & x \geq 2 \\ \frac{\alpha x}{2} + 10 & x < 2 \end{cases}$ If $f(x)$ is onto function then α belongs to (A) [1, 4] (B) [-2, 3] (C) [0, 3] (D) [2, 5]

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21 - 64281

The domain of the function f given by

$$f(x) = \sqrt{\log_{0.3}\left(\frac{e^x - 1}{e^x - \tan x}\right)}$$

contains (A) $\left(0, \frac{\pi}{4}\right]$ (B) $\left[\frac{\pi}{4}, \frac{\pi}{2}\right)$ (C) $\left[-\frac{3\pi}{4}, -\frac{\pi}{2}\right)$ (D) $\left(\frac{\pi}{2}, \frac{5\pi}{4}\right]$

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Let $f(x)$ be defined in $(0, 1)$, then the domain of definition of

$$f(e^x) + f(\ln|x|)$$

is (A) $\left(\frac{1}{e}, 1\right)$ (B) $(-e, -1)$ (C) $(1, e)$ (D) $(e^2, e^2 + 2)$

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23 - 82057

If $x, y \in (0, 30)$ such that

$$\left[\frac{x}{3}\right] + \left[\frac{3\pi}{2}\right] + \left[\frac{y}{2}\right] + \left[\frac{3\pi}{4}\right] = \frac{11}{6}x + \frac{5}{4}y$$

(where $\{x\}$

denotes greatest integer $\leq x$) number of ordered pairs (x, y) is

- (A) 0 (B) 2 (C) 4 (D) none of these

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If $f: R \rightarrow R$ such that $f(x) = \ln(x + \sqrt{x^2 + 1})$. Another

function $g(x)$ is defined such $gof(x) = x$, for all $x \in R$. Then

24 - 86545
g(2) is (A) $\frac{e^2 + e^{-2}}{2}$ (B) $\frac{e^2 - e^{-2}}{2}$ (C) e^2 (D) e^{-2}

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Let $A = \{1, 2, 3\}$ and $B = \{a, b, c\}$. If I is the number of

functions from A to B and m is number of one-one functions from

25 - 94984
A to B, then (A) I is 9 (B) m is 9 (C) I is 27 (D) m is 16

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26 - 94991

If $f(x) = (a - x^n)^{\frac{1}{n}}$ then $f \circ f(x)$ is (A) x (B) $a-x$ (C) x^2 (D)

$$-\frac{1}{x^n}$$

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27 - 95199

If $f(x) = \sin(\log x)$ then

$$f(xy) + f\left(\frac{x}{y}\right) - 2f(x)\cos(\log y) = \text{(A) } \cos(\log x) \text{ (B)}$$

$$\sin(\log y) \text{ (C) } \cos(\log(xy)) \text{ (D) } 0$$

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28 - 95200

Which of the following is an even function (A)

$$f(x) = \frac{a^x + a^{-x}}{a^x - a^{-x}} \text{ (B) } f(x) = \frac{a^x + 1}{a^x - 1} \text{ (C) } f(x) = x \frac{a^x - 1}{a^x + 1}$$

$$\text{(D) } f(x) = \log_2\left(x + \sqrt{x^2 + 1}\right)$$

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29 - 97059

$$f(x) = \begin{cases} 4 & x < -1 \\ -4x & -1 \leq x \leq 0 \end{cases} \text{ If } f(x) \text{ is an even function in R}$$

then the definition of $f(x)$ in $(0, \infty)$ is: (A)

$$f(x) = \begin{cases} 4x & 0 < x \leq 1 \\ 4 & x > 1 \end{cases} \text{ (B) } f(x) = \begin{cases} 4x & 0 < x \leq 1 \\ -4 & x > 1 \end{cases}$$

(C) $f(x) = \begin{cases} 4 & 0 < x \leq 1 \\ 4x & x > 1 \end{cases}$ (D)

$$f(x) = \begin{cases} 4 & x < -1 \\ -4x & -1 \leq x \leq 0 \end{cases}$$

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If a line makes an angle α, β, γ with positive axes, then the range of $\sin \alpha \sin \beta + \sin \beta \sin \gamma + \sin \gamma \sin \alpha$ is (A)

30 - 97941

$$\left(-\frac{1}{2}, 1 \right) \text{(B)} \quad \left(\frac{1}{2}, 2 \right) \text{(C)} \quad (-1, 2) \text{(D)} \quad (-1, 2]$$

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Let $f: R \rightarrow \left(0, \frac{\pi}{2}\right)$ be a function defined by

$f(x) = \cot^{-1}(x^2 + 4x + \alpha^2 - \alpha)$, complete set of values of

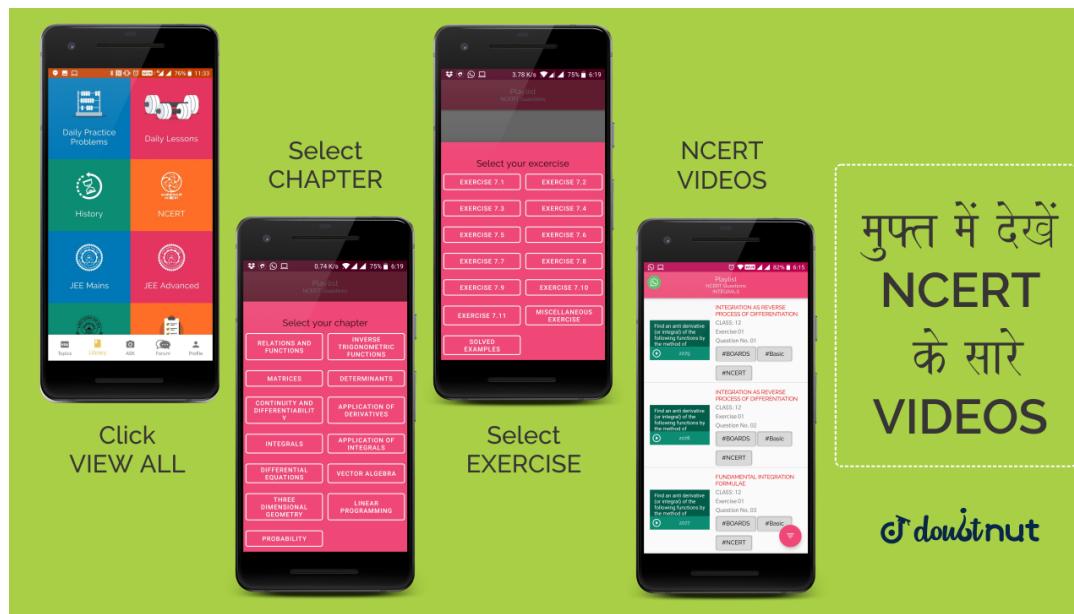
α for which $f(x)$ is onto, is (A) $\left[\frac{1 - \sqrt{17}}{2}, \frac{1 + \sqrt{17}}{2} \right]$ (B)

31 - 105230

$$\left(-\infty, \frac{1 - \sqrt{17}}{2} \right] \cup \left[\frac{1 + \sqrt{17}}{2}, \infty \right) \text{(C)}$$

$$\left(\frac{1 - \sqrt{17}}{2}, \frac{1 + \sqrt{17}}{2} \right) \text{(D) none of these}$$

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If $f: R \rightarrow R$ such that $f(x) = \frac{4^x}{4^x + 2}$ for all $x \in R$ then (A)

$f(x) = f(1 - x)$ (B) $f(x) + f(1 - x) = 0$ (C)

32 - 149956

$f(x) + f(1 - x) = 1$ (D) $f(x) + f(x - 1) = 1$

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If $f''(x) = -f(x)$ and $g(x) = f'(x)$ and

$F(x) = \left(f\left(\frac{x}{2}\right)\right)^2 + \left(g\left(\frac{x}{2}\right)\right)^2$ and given that $F(5) = 5$,

33 - 185183

then $F(10)$ is equal to (A) 5 (B) 10 (C) 0 (D) 15

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34 - 195551

Consider an equation

$$\log_2(\alpha^6 - 16\alpha^3 + 66) + \sqrt{4\beta^4 - 8\beta^2 + 13} \left| \left[\frac{\gamma}{3} - 2 \right] \right| = 4$$

where α, β, γ are integers and m, n and r are the number of

value of α , β and γ respectively which satisfy the above equation. The number of ordered triplets (α, β, γ) is: (A) 2 (B) 3 (C) 6 (D) 9

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35 - 199777

The maximum value of $\sin\left(\theta + \frac{\pi}{6}\right) + \cos\left(\theta + \frac{\pi}{6}\right)$ is attained at $\theta \in \left(0, \frac{\pi}{2}\right)$ (A) $\frac{\pi}{12}$ (B) $\frac{\pi}{6}$ (C) $\frac{\pi}{3}$ (D) $\frac{\pi}{4}$

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36 - 238411

The value of $\frac{d}{dx}(f^{-1}(x))$ at $x = 9$ for

$f(x) = x^3 - 2x^{-3} - 3 + 10$ is ($x > 0$) (A) $-\frac{1}{3}$ (B) $\frac{1}{9}$ (C) $\frac{1}{27}$ (D) none

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37 - 315944

If $A = \{1, 2, 3, 4, 5, 6, 7, 8\}$ then the number of onto functions $f: A \rightarrow A$ so the $f(x) \neq x$, $f(x) = \text{even}$ when x is even and $f(x) = \text{odd}$ when x odd is (A) 18 (B) 9^9 (C) 81 (D) 64

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38 - 369700

Domain of definition of the function

$$f(x) = \frac{3}{4-x^2} + \log_{10}(x^3 - x)$$
 is (A)

- (- 1, 0) \cup (1, 2) \cup (2, ∞) (B) (- 1, 0) \cup (1, 2) (C) (1,2) (D)
(1, 2) \cup (2, ∞)

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The function $f: A \rightarrow B$ defined by $f(x) = -x^2 + 6x - 8$ is

a bijection, if (A) $A = (-\infty, 3]$ and $B = (-\infty, 1]$ (B)

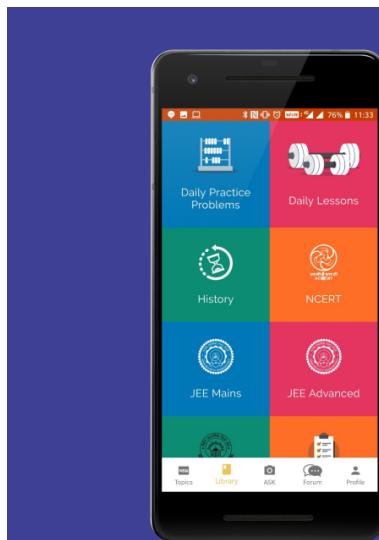
39 - 1149965

$A = [-3, \infty)$ and $B = (-\infty, 1]$ (C) $A = (-\infty, 3]$ and

$B = (1, \infty)$ (D) $A = [3, \infty)$ and $B = [1, \infty)$

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Let $A = \{x_1, x_2, x_3, x_4, x_5\}$, $B = \{y_1, y_2, y_3, y_4\}$, Function f is defined from A to B. Such that $f(x_1) = y_1$, and $f(x_2) = y_2$ then, number of onto functions from A to B is (A) 12 (B) 6 (C) 18 (D) 27

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41 - 1307440 Let $A = \{1, 2, 3, 4\}$. The number of functions $f: A \rightarrow A$

satisfying $f(f) = 1$ for all $1 \leq i \leq 4$ is (A) 1 (B) 6 (C) 9 (D) 10

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42 - 1313689 If $f: R \rightarrow C$ is defined by $f(x) = e^{i2x}$ for $x \in R$ then, f is
(Where C denotes the set of all Complex numbers) (A) one one

(B) onto (C) one one and onto (D) neither one one nor onto

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43 - 1330675 If $f(x) = \tan x + \tan^2 x \tan 2x$ and $g(n) = \sum_{r=0}^{x=k} f(2^r)$,
then $g(2013) - \tan(2^{2014})$ is equal to (A) 0 (B) $\tan 1$ (C)
 $-\tan 1$ (D) 1



44 - 1382088

Let $f(x) = \sin\left(2x + \frac{\pi}{4}\right)$ is defined for $f: x \rightarrow y$, then for this function to be bijective (A) $x = \left[\frac{3\pi}{8}, \frac{\pi}{8}\right], y = [-1, 1]$ (B)
 $x = \left[-\frac{\pi}{2}, \frac{\pi}{2}\right], y = [-1, 1]$ (C) $x = \left[0, \frac{\pi}{2}\right], y = [-1, 1]$
(D) none

45 - 1418331

$\sin^{-1}(\sin 5) > x^2 - 4x$ hold if (A) $x = 2 - \sqrt{9 - 2\pi}$ (B)
 $x = 2 + \sqrt{9 - 2\pi}$ (C) $x > 2 + \sqrt{9 - 2\pi}$ (D)
 $x \in (2 - \sqrt{9 - 2\pi}, 2 + \sqrt{9 - 2\pi})$

46 - 1472373

If $f(x) = |x - 1| + |x - 2| + |x - 3|$, $f: [2, 3] \rightarrow R$ is (A) one-one ,onto (B) an onto only (C) an identity function (D) an into function only

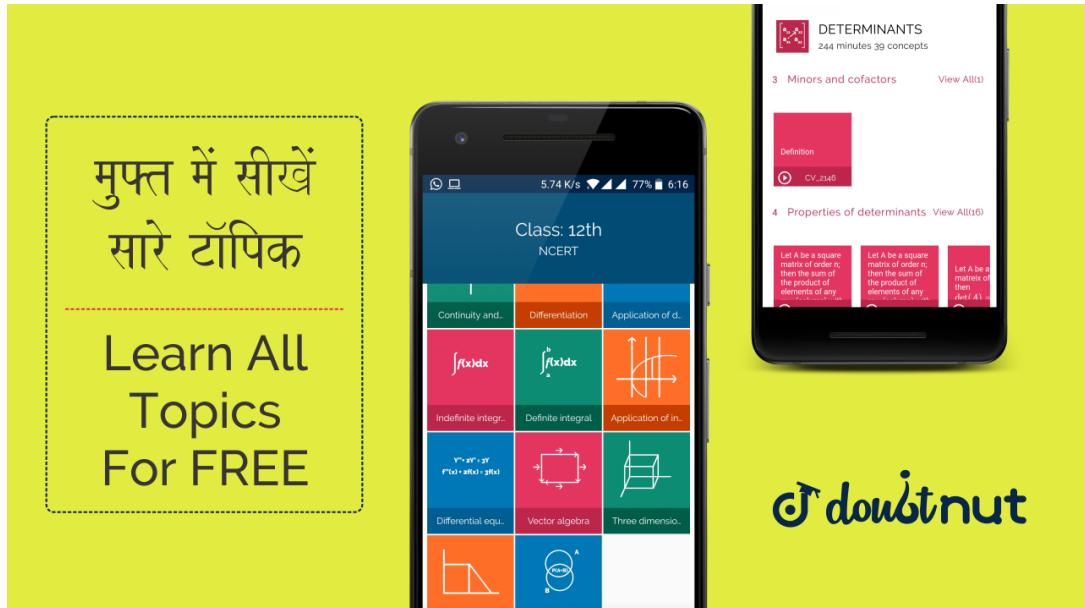
47 - 1660470

Let $f(x)$ be a function whose domain is
[- 5, 7] and $g(x) = |2x + 5|$, then the domain of $fog(x)$ is

(A) [- 5, 1] (B) [- 4, 0] (C) [- 6, 1] (D) none of these

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A real valued function $f(x)$ satisfies the functional equation

$f(x - y) = f(x)f(y) - f(a - x)f(a + y)$, where a is a

48 - 1860205

given constant and $f(0) = 1$, $f(2a - x) =$ (A) $-f(x)$ (B)

$f(x)$ (C) $f(a - x)$ (D) $f(-x)$

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49 - 1861237

If $f(x) = \sin \theta \cdot x + a$ and the equation $f(x) = f^{-1}(x)$ is

satisfied by every real value of x , then (A) $\theta = \frac{\pi}{2}$ (B) $\theta = \frac{3\pi}{2}$

(C) $a \in R$ (D) $a = 1, \theta = \frac{\pi}{2}$

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Let $f: R \rightarrow B$ is given by $f(x) = \frac{2x^8 + 6x^4 + 4x^2 + 3}{x^8 + 3x^4 + 2x^2 + 1}$.

Interval of B for which f is onto is (A) $[1, \infty)$ (B) $[0, \infty)$ (C)
 $[-\infty, \infty)$ (D) $(2, 3]$

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A relation R is defined from A to B by

$$R = \{(x, y) \mid x \in \mathbb{N}, y \in \mathbb{N}, \text{ and } x + y = 4\}.$$

Then, R is (A) symmetric (B) reflexive (C) equivalence (D) both
(A) and (B)

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Let $f(x) = \frac{\alpha x}{x+1}$ Then the value of α for which $f(f(x)) = x$
is (A) $\sqrt{2}$ (B) $-\sqrt{2}$ (C) 1 (D) -1

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$$f(x) = |x - 1|, f: R^+ \rightarrow R, g(x) = e^x, g: [-1, \infty) \rightarrow R.$$

If the function $fog(x)$ is defined, then its domain and range

respectively are: (A) $(0, \infty)$ and $[0, \infty)$ (B) $[-1, \infty)$ and

$[0, \infty)$ (C) $[-1, \infty)$ and $\left[1 - \frac{1}{e}, \infty\right)$ (D) $[-1, \infty)$ and $\left[\frac{1}{e} - 1, \infty\right)$

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54 - 3834644

If $f(x) = \frac{9^x}{9^x + 3}$ then

$$f\left(\frac{1}{1996}\right) + f\left(\frac{2}{1996}\right) + \dots + f\left(\frac{1995}{1996}\right) = \text{(A) } 997 \text{ (B)}$$

997.5 (C) 998 (D) 998.5

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55 - 3989110

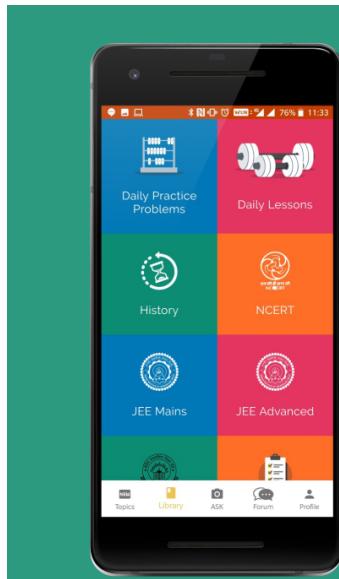
Let $f: R \rightarrow R$ be a function defined by $f(x) = |x|$ for all

$x \in R$ and let $A = [0, 1)$, then $f^{-1}(A)$ equals (A) $(-1, 1)$ (B)

(0, 1) (C) $(-1, 0)$ (D) None of the above

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If the coefficient of 5^{th} and 3^{rd} terms in the expansion of

$$\left(\sqrt{\frac{15}{2}}x + \frac{1}{x^2} \right)^n \text{ where } n \in \mathbb{N} \text{ are equal, then the term}$$

independent of x is (A) 5th (B) 4th (C) 6th (D) 7th

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If $f(x) = x^n$, $n \in N$ and $gof(x) = ng(x)$ then g(x) can be

- (A) $n|x|$ (B) $3x^{\frac{1}{3}}$ (C) e^x (D) $\log|x|$

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If the equation $|2 - x| - |x + 1| = k$ has exactly one solution,

then number of integral values of k is (A) 7 (B) 5 (C) 4 (D) 3

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Given a sequence t_1, t_2, \dots if its possible to find a function

$f(r)$ such that $t_r = f(r + 1) - f(r)$ then

$$\sum_{n=1}^n t_r = f(n + 1) - f(1), \text{ Sum of the}$$

$$\sum_{r=1}^{\infty} \frac{1}{r(r + 1)(r + 2)} \text{ is (A) 1 (B) } \frac{1}{2} \text{ (C) } \frac{1}{4} \text{ (D) } \frac{1}{8}$$

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The number of onto function $f: A \rightarrow B$ where $\{1, 2, 3, 4, 5, 6\}$

and $B = \{1, 2, 3\}$ is (A) 150 (B) 240 (C) 540 (D) 450

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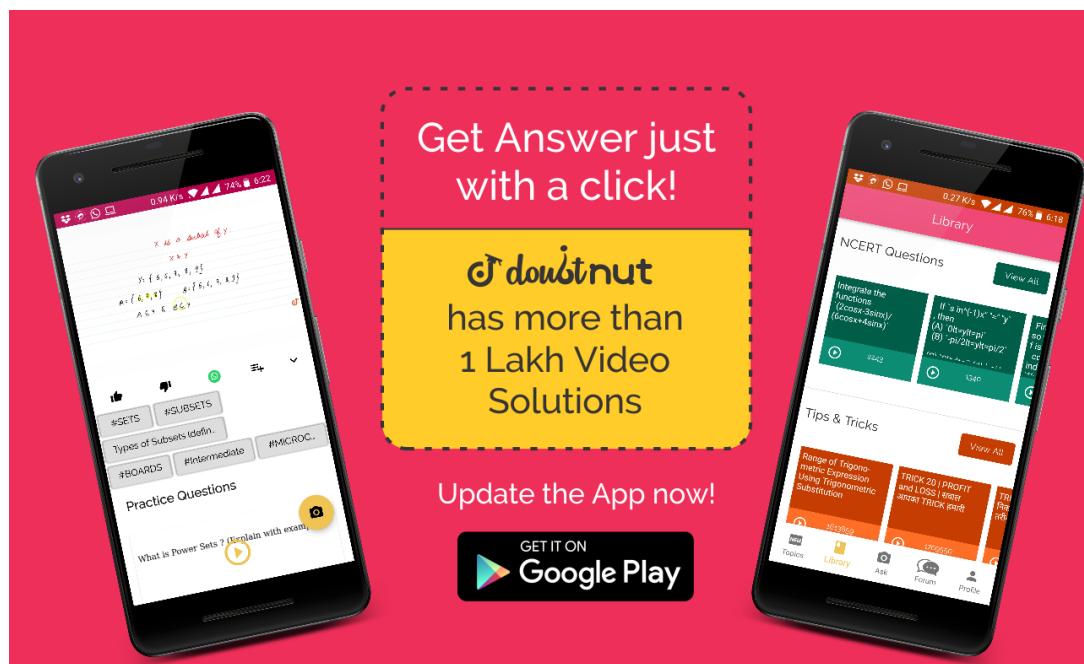
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1 - 27508	C  Watch Free Video Solution of this Question on Doubtnut
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2 - 27574	C  Watch Free Video Solution of this Question on Doubtnut
Ques No.	Answer
3 - 27786	A  Watch Free Video Solution of this Question on Doubtnut

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4 - 27813	C Watch Free Video Solution of this Question on Doubtnut
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