



Sahi Prep Hai Toh Life Set Hai

## Doubt Session



Post a Doubt -







## INSTRUCTIONS FOR ATTACHING DOUBTS FOR FURTHER DOUBT SESSION



- If a doubt is not attached properly, it will not taken in the class.
- None of the question which is discussed in class will be taken in doubt session, if you haven't revised the class.
- Without options and without mentioning which option is correct, no doubts will be entertained.
- Maximum numbers of doubts, a student can ask in doubt session is 5.
- Please send all your doubts atleast 24 hours before Doubt Class.



$$x^3 = 3$$

Q. If 
$$x^3 + y^3 + z^3 = 3(1 + xyz)$$
,  $P = y + z_7 \times$ 

Q = z + x - y, R = x + y - z, then what is the value of  $P^3 + Q^3 + R^3 - 3PQR = ?$ 





Symm -

creek

30=4 /3

a = 4/ (3

16.x = [C

Q. If  $a + b + c = 4\sqrt{3}$  and  $a^2 + b^2 + c^2 = 16$ then a : b : c = ?

a) 1 : 1 : 1

(c) 1 : 2 : 3

(b)  $1:\sqrt{2}:\sqrt{3}$ 

(d) None of these





**Q33.** If  $x_1x_2x_3 = 4(4 + x_1 + x_2 + x_3)$  then what is the

I Putting values

value of 
$$\frac{1}{(2+x_1)} + \frac{1}{(2+x_2)} + \frac{1}{(2+x_3)}$$

(c) 2 (d) 
$$\frac{1}{3}$$

x1. x2. x3 = 4 (4+x1+x2+x3) 2+ x2 2+x2)(2+x3) + (2+x1)(2+x3) + (2+x1) (2+x2) (2+x1) (2+x2) (2+x3) 12+ 4(x1+x2+x3) + x1x3+x2x3+x4x2 (4+2x2+2x1+x1x2) (2+x3) + 4 (x1+x2+x3) + x1 x3+x2x3 + x1x2 8 + 4x3 + 4x2 + 2x2x3 # 4x1 + 2x1x3 + 2x1x2 + 4x12 4×1+4×2+4×3)



Q35. If 
$$a^2 + b^2 + 9 - 6b + (a + b - 4)^2 = 2ab - 6a$$
, then find  $ab = ??$ 

(b) -7/4

(d) 12

Time gosec









Q28. If p<sup>x</sup> = r<sup>y</sup> = m and r<sup>w</sup> = p<sup>z</sup> = n, then which one of the following is correct?

- (b) xz = yw
- (c) x+y = w+z
- (d) x-y = w-z





Q34. If 
$$5x + \left[\frac{1}{(7x)}\right] = 9$$
, what is the value of  $\frac{7x}{35x^2 + 35x + 1}$ ?

$$35x + 1 = 63x$$
 (a) 1/14 (b) 1/63

- (b) 1/63
- (c) 1/98
- (d) 7/14





Q29. If  $a^x = b$ ,  $b^y = c$  and xyz = 1, then what is  $c^z$  equal to?

Time Gosec

- (a) a
  - (c) ab
  - (d) a/b

$$(a^{x})^{y}_{--} = c$$
 $a^{xy}_{--} = c^{2}$ 
 $a^{xyz}_{--} = c^{2}$ 
 $a^{xyz}_{--} = c^{2}$ 





**Q6.** If  $a^x = (x + y + z)^y$ ,  $a^y = (x + y + z)^z$  and  $a^z = (x + y + z)^x$ , then x + y + z = ?  $(a \ne 0)$ 

$$(c)$$
  $a^3$ 



$$\frac{b-c}{a} + \frac{a+c}{b} + \frac{a-b}{c} = 1 \text{ and } \frac{(a-b+c)+0}{a}$$
then

$$\left(\frac{b-c}{a}-1\right) + \left(\frac{q+c-1}{b}\right) + \left(\frac{a-b}{c}+1\right) = 0 \quad (a) \quad \frac{1}{c} = \frac{1}{a} + \frac{1}{b} \qquad (b) \quad \frac{1}{a} = \frac{1}{b} + \frac{1}{c} \\
1 \quad 1 \quad 1 \quad 1$$

$$\frac{a}{a} = \frac{1}{b} = \frac{1}{a} - \frac{1}{c}$$

$$\frac{b-c-q}{a} + \frac{a+c-b}{b} + \frac{a-b+c}{b} = \frac{1}{a} - \frac{1}{c}$$

$$\frac{b-c-q}{a} + \frac{a+c-b}{b} + \frac{a-b+c}{b} = \frac{1}{a} - \frac{1}{c}$$

$$\frac{b-c-q}{a} + \frac{a+c-b}{b} + \frac{a-b+c}{b} = \frac{1}{a} - \frac{1}{c}$$

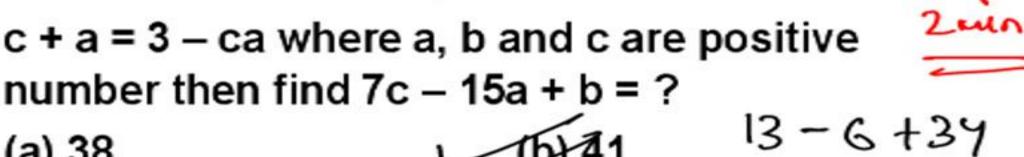
$$\frac{1}{a} = \frac{1}{b} + \frac{1}{c}$$

(d) 
$$\frac{1}{b} = \frac{1}{a} + \frac{1}{c}$$





Q36. If 
$$a + b = 48 - ab$$
,  $b + c = 99 - bc$  and  $c + a = 3 - ca$  where a, b and c are positive



(a) 38



Q37. If 
$$(2.9)^x = (841)^y = 1000$$
, find  $\frac{xy}{x-2y} = ?$ 

(a) 
$$1/2$$

(c) 
$$1/3$$

(d) 
$$-1/4$$

$$\frac{1}{3} = \frac{1}{24} - \frac{1}{x}$$

$$\frac{1}{3} = \frac{x^{-2}y}{2x^{4}}$$

$$\frac{1}{3} = \frac{x^{-2}y}{x^{4}}$$

$$\frac{2}{3} = \frac{x^{-2}y}{x^{4}}$$

$$\frac{2}{3} = \frac{x^{7}}{x^{7}}$$





**Q39.** If 
$$x^2 - 4x + 1 = 0$$
, find  $x^9 + x^7 - 194x^5 - 194x^3 = ?$ 

$$(a) - 2$$

$$(b) - 4$$

$$= - \left( \begin{array}{c} x \\ x_{3} + x_{4} \end{array} \right) \left( \begin{array}{c} x \\ x_{3} + x_{4} \end{array} \right) = - \left( \begin{array}{c} x \\ x_{4} + x_{5} \end{array} \right)$$

$$= - \left( \begin{array}{c} x \\ x_{4} + x_{5} \end{array} \right) \left( \begin{array}{c} x_{2} + x_{3} \\ x_{3} + x_{4} \end{array} \right) = - \left( \begin{array}{c} x \\ x_{4} + x_{5} \end{array} \right)$$







Q40. If 
$$\frac{8(x+y)^3 - 27(x-y)^3}{5(y-x)} = Ax^2 + Bxy + Cy^2$$

$$[2(x+y)]^{3} - [3(x-y)]^{3}$$

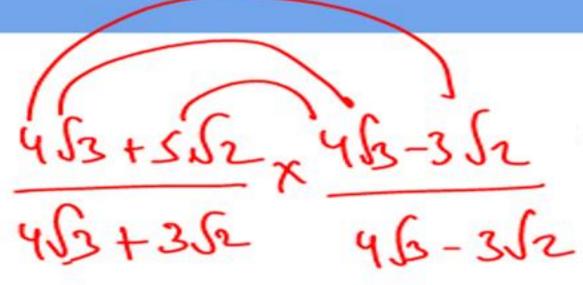
then find the value of 
$$(A + B + C) = ?$$

$$4(x+y)^{2} + 6(x^{2}-y^{2}) + 9(x-y)^{2}$$
 $19x^{2} - 10xy + 7y^{2}$ 
 $B = -6$ 









Q17. If 
$$\frac{4\sqrt{3}+5\sqrt{2}}{\sqrt{48}+\sqrt{18}}$$
  $f(a)$  then the values of  $a$  and  $b$  are

(a) 
$$\frac{9}{15}$$
,  $\frac{-4}{15}$ 

(b) 
$$\frac{3}{11}, \frac{4}{33}$$

(c) 
$$\frac{9}{10}$$
,  $\frac{2}{5}$ 

$$\frac{3}{5}, \frac{4}{15}$$







Q22. If 
$$\frac{p}{(b-c)(b+c-2a)} = \frac{q}{(c-a)(c+a-2b)} = \frac{r}{(a-b)(a+b-2c)}$$

Find p + q + r

$$\frac{1}{2} = \frac{k(b-c)(b+c-2a)}{(c+a-2b)}$$

$$\frac{1}{2} = \frac{k(c-a)(c+a-2b)}{(c+a-2b)}$$









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Practise topic-wise quizzes

Keep attending live classes

