

MATHS



05:00 PM



PROBLEMS ON ALGEBRA



RAILWAY NTPC 2019

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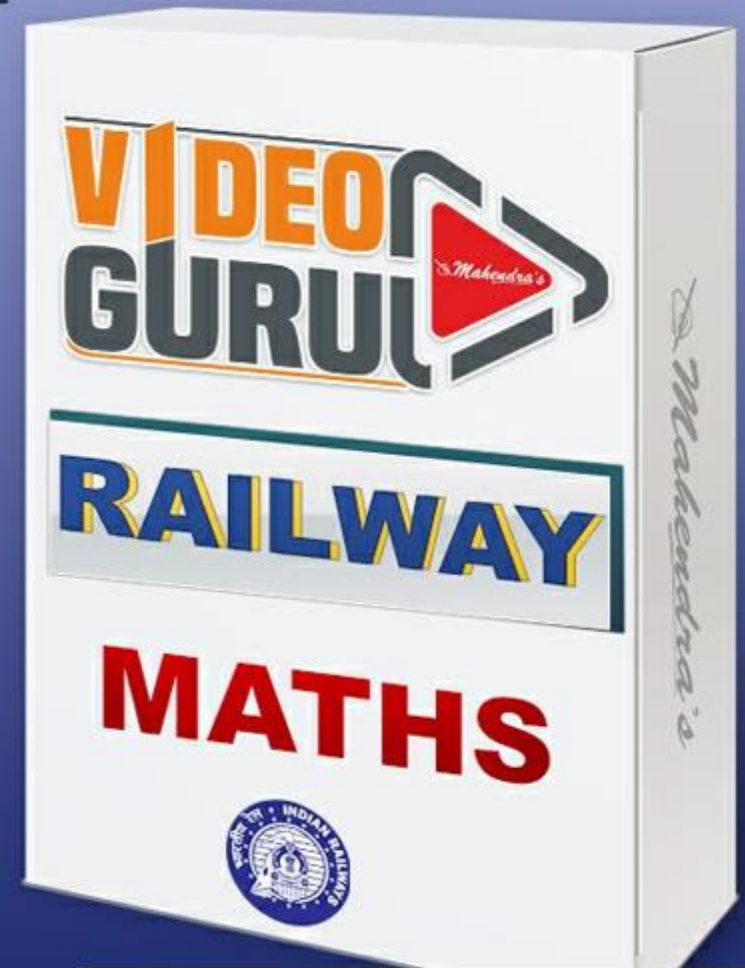
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BASIC POINTS



If $c + \frac{1}{c-3} = 3$ then $(c-3)^7 + \frac{1}{(c-3)^7} = ?$



- A) 0**
- B) 4**
- C) 18**
- D) NOT**

If $x^2 + 2 = 2x$ then find $x^4 - x^3 + x^2 + 2 = ?$




- A) 0
- B) 1
- C) 4
- D) NOT

If $ax + by = 6$, $bx - ay = 4$ and $(x^2 + y^2) = 4$
then find $(a^2 + b^2) = ?$



- A) 10**
- B) 40**
- C) 20**
- D) NOT**

If $(x - 9)^2 + (y + 5)^2 + (z - 4)^2 = 0$, then find the value of $(x + y - z)$.

- 
- A) 0
 - B) 1
 - C) 2
 - D) 3

If $a^2 + b^2 + c^2 = 2(a - b - c) - 3$ then find
 $(a + b - c) = ?$

- A) 0
- B) 1
- C) -1
- D) 2

If $x^2 + y^2 + z^2 + 4x - 6y + 8z - 29 = 0$ then find $(x - y + z) = ?$

- A) 8
- B) -8
- C) 9
- D) -9

If $\frac{1}{a-1} + \frac{2}{b-2} + \frac{3}{c-3} = 10$ then $\frac{a}{a-1} + \frac{b}{b-2} + \frac{c}{c-3} = ?$



- A) 7
- B) 13
- C) 27
- D) NOT

If $\frac{a^2+b^2+c^2}{ab+bc+ca} = 1$, then find the value of $\frac{a+b}{c} + \frac{b+c}{a} + \frac{c+a}{b}$.



- A) 0
- B) 3
- C) 6
- D) 3

If $x + \frac{1}{x-5} = 7$, then find the value of $x^2 + \frac{1}{x^2}$



- A) 1**
- B) 2**
- C) CND**
- D) NOT**

If $x^5 + \frac{1}{x^2} = 32\frac{1}{4}$, then find the value of $x^3 + \frac{1}{x^4}$



- A) $8\frac{1}{16}$
- B) $16\frac{1}{8}$
- C) 2
- D) NOT

If $(x-3)$ is a factor of $x^3 - 2x^2 + 4x - k$ then find the value of k .



- A) 10**
- B) 21**
- C) 20**
- D) NOT**

If $(x^2 - x + 1)$ is a factor of $2x^3 - 7x^2 + 7x - k + 2$ then find the value of k .



- A) 5**
- B) 7**
- C) -7**
- D) NOT**

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