

MATH RAILWAY (ALGEBRA 25 SEPTEMBER 2018)

Q.1. If $x^2 + y^2 + z^2 - 4y + 6z = -14 - 2x$, then $3x + 7y - 6z = ?$

यदि $x^2 + y^2 + z^2 - 4y + 6z = -14 - 2x$, तो $3x + 7y - 6z = ?$

1. 35 2. 29 3. 46 4. 69

Ans: 2

Q.2. If $x - \frac{1}{x} = 3$, then find $x^3 + \frac{1}{x^3} = ?$

यदि $x - \frac{1}{x} = 3$, तो $x^3 + \frac{1}{x^3} = ?$

1. 130 2. 260 3. $10\sqrt{13}$ 4. $13\sqrt{10}$

Ans: 3

Q.3. If $x^2 + 1 = 3x$, then $x^4 - 7x^2 = ?$

यदि $x^2 + 1 = 3x$, तो $x^4 - 7x^2 = ?$

1. 0 2. 1 3. -1 4. 2

Ans: 3

Q.4. If $x + \frac{1}{x} = 6$, then $x^5 + \frac{1}{x^5} = ?$

यदि $x + \frac{1}{x} = 6$, तो $x^5 + \frac{1}{x^5} = ?$

1. 6732 2. 2 3. 6726 4. 6738

Ans: 3

Q.5. If $x + \frac{1}{x} = 3$, then $x^6 + \frac{1}{x^6} = ?$

यदि $x + \frac{1}{x} = 3$, तो $x^6 + \frac{1}{x^6} = ?$

1. 324 2. 326 3. 322 4. 226

Ans: 3

Q.6. If $3x + \frac{1}{2x} = 4$, then $9x^2 + \frac{1}{4x^2} = ?$

यदि $3x + \frac{1}{2x} = 4$, तो $9x^2 + \frac{1}{4x^2} = ?$

1. 19 2. 13 3. 24 4. 22

Ans: 2

Q.7. If $2x + \frac{1}{3x} = 6$, then $9x^2 + \frac{1}{4x^2} = ?$

यदि $2x + \frac{1}{3x} = 6$, तो $9x^2 + \frac{1}{4x^2} = ?$

1. 78 2. 84 3. 34.67 4. 37.33

Ans: 1

Q.8. If $x^4 + y^4 = x^2y^2$, then find $x^6 + y^6$

यदि $x^4 + y^4 = x^2y^2$, तो $x^6 + y^6$

1. 2 2. 0 3. 6 4. 3

Ans: 2

Q.9. If $x + \frac{1}{x} = \sqrt{3}$, then find $x^{196} + x^{190} + x^{184} + x^{178} + x^{146} + x^{140} + x^{96} + x^{90} + x^6 + 1$.

यदि $x + \frac{1}{x} = \sqrt{3}$, तो $x^{196} + x^{190} + x^{184} + x^{178} + x^{146} + x^{140} + x^{96} + x^{90} + x^6 + 1$.

1. 3 2. 0 3. 6 4. 1

Ans: 2

Q.10. If $x + \frac{1}{x} = \sqrt{3}$, then find $x^{53} + x^{51} + x^{49} + x^{47} + x^{45} + x^{43}$.

यदि $x + \frac{1}{x} = \sqrt{3}$, तो $x^{53} + x^{51} + x^{49} + x^{47} + x^{45} + x^{43}$.

1. 3 2. 0 3. 6 4. 1

Ans: 2

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