MATH RAILWAY (JE) 11 FEBRUARY 2019

1. If ab+bc+ca=abc, then value of $\frac{a+b}{ab(c-1)}+\frac{b+c}{bc(a-1)}+\frac{c+a}{ac(b-1)}$ is

यदि ab+bc+ca=abc, *तो* $\frac{a+b}{ab(c-1)}+\frac{b+c}{bc(a-1)}+\frac{c+a}{ac(b-1)}$ *का मान है*

1.) -1 2.) 0

3.) 1 4.) 2

2. If $a^2=b+c, b^2=c+a$ and $c^2=a+b$ then value of $\frac{1}{1+a}+\frac{1}{1+b}+\frac{1}{1+c}$ is

यदि $a^2=b+c, b^2=c+a$ *और* $c^2=a+b$, *तो* $\frac{1}{1+a}+\frac{1}{1+b}+\frac{1}{1+c}$ *का मान है*

1.) -1 2.) 0

3.) 1 4.) 2

3. If $\frac{a}{1-2a}+\frac{b}{1-2b}+\frac{c}{1-2c}=\frac{1}{2}$ then value of $\frac{1}{1-2a}+\frac{1}{1-2b}+\frac{1}{1-2c}$ is

यदि $\frac{a}{1-2a}+\frac{b}{1-2b}+\frac{c}{1-2c}=\frac{1}{2}$, *तो* $\frac{1}{1-2a}+\frac{1}{1-2b}+\frac{1}{1-2c}$ *का मान है*

1.) 1 2.) 2

3.) 3 4.) 4

4. $(x+y+z)^3-(x+y-z)^3-(x-y+z)^3-(y+z-x)^3=?$

1.) 8(x+y+z) 2.) 24(xyz)

3.) 8xyz 4.) 24

5. If $2x=a+\sqrt{\frac{4b^3-a^3}{3a}}$ and $2y=a-\sqrt{\frac{4b^3-a^3}{3a}}$, then value of x^3+y^3 is

यदि $2x=a+\sqrt{\frac{4b^3-a^3}{3a}}$ *और* $2y=a-\sqrt{\frac{4b^3-a^3}{3a}}$, *तो* x^3+y^3 *का मान है*

1.) a 2.) b

3.) a^3 4.) b^3

6. If $\frac{m-a^2}{b^2+c^2}+\frac{m-b^2}{a^2+c^2}+\frac{m-c^2}{a^2+b^2}=0$, then value of m is

यदि $\frac{m-a^2}{b^2+c^2}+\frac{m-b^2}{a^2+c^2}+\frac{m-c^2}{a^2+b^2}=0$, *तो* m *का मान है*

1.) $a^2+b^2+c^2$ 2.) $a^2-b^2-c^2$

3.) $a^2+b^2-c^2$ 4.) $a^2-b^2+c^2$

7. If a + b + c =6 and ab + bc + ca =11 then value of bc(b+c) +ca(c+a)+ab(a+b)+3abc is

यदि a + b + c =6 *और* ab + bc + ca =11 , *तो* bc(b+c) +ca(c+a)+ab(a+b)+3abc *का मान है*

1.) 23 2.) 33

3.) 55 4.) 66

8. If a + b + c =0 then value $\frac{a^2}{a^2-bc}+\frac{b^2}{b^2-ca}+\frac{c^2}{c^2-ab}$ is

यदि a + b + c =0, *तो* $\frac{a^2}{a^2-bc}+\frac{b^2}{b^2-ca}+\frac{c^2}{c^2-ab}$ *का मान है*

1.) 0 2.) 1

3.) 2 4.) 3

9. If $x^2+1=2x$ then value x^3-2x^2+x is

यदि $x^2+1=2x$, *तो* x^3-2x^2+x *का मान है*

1.) 0 2.) 1

3.) 2 4.) 3

10. If $x^2+2x=-1$ then value x^3+x^2+x+1 is

यदि $x^2+2x=-1$, *तो* x^3+x^2+x+1 *का मान है*

1.) 0 2.) 1

3.) 2 4.) 3

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