



Maths By Gagan Pratap

ALGEBRA SHEET- 4

Based On Value Putting

Maths Special Batch

By Gagan Pratap

1. $\frac{a^3(b^2-c^2)+b^3(c^2-a^2)+c^3(a^2-b^2)}{a^2(b-c)+b^2(c-a)+c^2(a-b)} = ?$

a) $ab+bc+ca$ b) 1

c) 0 d) $a+b+c$

2. $\frac{a(b-c)^2}{(c-a)(a-b)} + \frac{b(c-a)^2}{(a-b)(b-c)} + \frac{c(a-b)^2}{(b-c)(c-a)} = ?$

a) $a+b+c$

b) 3

c) $a^2 + b^2 + c^2$

d) abc

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

a) $8(x+y+z)$

b) $24xyz$

c) $12xyz$

d) 24

4. if $\frac{x}{y} = \frac{z}{w}$ then $\frac{x^m+y^m+z^m+w^m}{x^{-m}+y^{-m}+z^{-m}+w^{-m}} = ?$

A) $\frac{x}{y}$

B) 1

C) $(xyzw)^{m/2}$

D) $(xyzw)^m$

5. If $x+y = 41$, then find $(x-20)^{2021} + (y-21)^{2021} = ?$

यदि $x+y = 41$ है, तो $(x-20)^{2021} + (y-21)^{2021}$ ज्ञात कीजिये?

A) 0

B) 1

C) 2

D) 3

6. If $x = a + \frac{1}{a}$ and $y = a - \frac{1}{a}$ then $\sqrt{x^4 + y^4 - 2x^2y^2}$ is equal to :

यदि $x = a + \frac{1}{a}$ और $y = a - \frac{1}{a}$ है तो $\sqrt{x^4 + y^4 - 2x^2y^2}$ बराबर है-

(a) $16a^2$

(b) 8

(c) $8/a^2$

(d) 4

7. If $x+y=2z$, then the value of $\frac{z}{x-z} + \frac{z}{y-z}$ is

a) 0

b) -1

c) 1

d) 2

8. If $x+y=2z$, then $\frac{x}{x-z} + \frac{y}{y-z} = ?$

a) 0

b) 1

c) 2

d) 3

9. If $a+b=2c$, then the value of $\frac{a}{a-c} + \frac{c}{b-c}$ is:

यदि $a+b=2c$ है, तो $\frac{a}{a-c} + \frac{c}{b-c}$ का मान क्या होगा?

(a) $1/2$

(b) 1

(c) 0

(d) -1

10. If $x+y+z=0$, then $\frac{(3y^2+x^2+z^2)}{(2y^2-xz)} = ?$

a) 2

b) 1

c) $\frac{3}{2}$

d) $\frac{5}{3}$

11. If $a+b+c=0$, then $\frac{1}{(a+b)(b+c)} + \frac{1}{(a+c)(b+a)} + \frac{1}{(c+a)(c+b)} = ?$

a) 1

b) 0

c) -1

d) -2

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12. If $x + y + z = 0$, then find the value of $\frac{x^2}{x^2-yz} + \frac{y^2}{y^2-zx} + \frac{z^2}{z^2-xy}$.

यदि $x + y + z = 0$ हो तो $\frac{x^2}{x^2-yz} + \frac{y^2}{y^2-zx} + \frac{z^2}{z^2-xy}$ का मान ज्ञात करें।

(a) 2

(b) 1

(c) 3

(d) 0

13. If $a+b+c=0$, then $\frac{a^2}{2a^2+bc} + \frac{b^2}{2b^2+ca} + \frac{c^2}{2c^2+ab} = ?$

a) 0

b) 1

c) 3

d) 2

14. If $a+b+c=0$, then $\frac{a^2+b^2+c^2}{(a-b)^2+(b-c)^2+(c-a)^2} = ?$

a) 1

b) 3

c) $\frac{1}{3}$

d) 0

15. If $a+b+c=0$, then $\frac{1}{a^2+b^2-c^2} + \frac{1}{b^2+c^2-a^2} + \frac{1}{c^2+a^2-b^2} = ?$

a) $\frac{1}{a^2+b^2+c^2}$

b) 1

c) -1

d) 0

16. If $a + b + c = 0$, then find the value of $\frac{2(a^4+b^4+c^4)}{(a^2b^2+b^2c^2+c^2a^2)}$?

यदि $a + b + c = 0$ है, तो $\frac{2(a^4+b^4+c^4)}{(a^2b^2+b^2c^2+c^2a^2)}$ का मान ज्ञात कीजिये?

A) 1

C) 3

B) 2

D) 4

17. If $a+b+c = 0$, then the value of

$\frac{2a^2}{(b^2+c^2-a^2)} + \frac{2b^2}{(a^2+c^2-b^2)} + \frac{2c^2}{(a^2+b^2-c^2)}$ is equal to:

(a) 3

(b) -3

(c) -4

(d) 0

18. If $a+b+c=2s$, then $\frac{(s-a)^2+(s-b)^2+(s-c)^2+s^2}{a^2+b^2+c^2} = ?$

a) $a^2+b^2+c^2$

b) 0

c) 1

d) 2

19. If $2s = a+b+c$, then what is the value of

$s^2 + (s-a)(s-b) + (s-b)(s-c) + (s-c)(s-a)$?

यदि $2s = a+b+c$, तो $s^2 + (s-a)(s-b) + (s-b)(s-c) + (s-c)(s-a)$ का मान क्या है? (CDS 2023)

A) $(a+b+c)^2$

B) $ab+bc+ca$

C) $2(ab+bc+ca)$

D) $3(ab+bc+ca)$

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20. If $xy+yz+zx=0$, then $\left(\frac{1}{x^2-yz} + \frac{1}{y^2-zx} + \frac{1}{z^2-xy}\right) = ?$ ($x, y, z \neq 0$)

- a) 3 b) 1 c) $x+y+z$ d) 0

21. If $pq+qr+rp=0$, then $\left(\frac{p^2}{p^2-qr} + \frac{q^2}{q^2-rp} + \frac{r^2}{r^2-pq}\right) = ?$

- a) 3 b) 1 c) 2 d) 0

22. If $\frac{a}{b+c} + \frac{b}{c+a} + \frac{c}{a+b} = 1$, then find $\frac{a^2}{b+c} + \frac{b^2}{c+a} + \frac{c^2}{a+b} = ?$

- a) 0 b) -2 c) 3 d) 1

23. If $a + b + c = 1$ and $ab + bc + ca = -1$, then find $\frac{a^2}{b+c} + \frac{b^2}{a+c} + \frac{c^2}{a+b} = ?$

- A) -4 C) -2
B) -3 D) -1

24. If $\frac{a}{b} + \frac{b}{c} + \frac{c}{a} = 0$, then $\frac{ac}{b^2} + \frac{b^2}{ac} - \frac{c^3}{a^3} = ?$

- a) -3 b) -2 c) -1 d) 0

25. If $a + b + c = 1$ and $a^3 + b^3 + c^3 = 4$, then $\frac{1}{a+bc} + \frac{1}{b+ac} + \frac{1}{c+ab} = ?$

- a) 1 b) -1 c) -2 d) 3

26. If $\frac{a-b}{c} + \frac{b+c}{a} + \frac{c-a}{b} = 1$ and $(b+c \neq a)$, then find the value of $\frac{ab+bc+ca}{ab}$.

- (a) 0 (b) 1
(c) 2 (d) 3

27. $(4x^3y - 6x^2y^2 + 4xy^3 - y^4)$ can be expressed as:

$(4x^3y - 6x^2y^2 + 4xy^3 - y^4)$ को निम्न रूप में व्यक्त किया जा सकता है:

- (a) $(x-y)^4 - x^4$ (b) $(x+y)^4 - y^4$
(c) $x^4 - (x-y)^4$ (d) $(x+y)^4 - x^4$

28. If $\left[\sqrt{(a^2 + b^2 + ab)}\right] + \left[\sqrt{(a^2 + b^2 - ab)}\right] = 1$, then what is the value of $(1-a^2)(1-b^2)$?

यदि $\left[\sqrt{(a^2 + b^2 + ab)}\right] + \left[\sqrt{(a^2 + b^2 - ab)}\right] = 1$ है, तो $(1-a^2)(1-b^2)$ का मान क्या है?

- (a) 1/4 (b) 4/7
(c) 5/4 (d) $\frac{3}{4}$

29. If $x = \left(\frac{a}{b}\right) + \left(\frac{b}{a}\right)$, $y = \left(\frac{b}{c}\right) + \left(\frac{c}{b}\right)$ and $z = \left(\frac{c}{a}\right) + \left(\frac{a}{c}\right)$, then what is the value of $xyz - x^2 - y^2 - z^2$?

यदि $x = \left(\frac{a}{b}\right) + \left(\frac{b}{a}\right)$, $y = \left(\frac{b}{c}\right) + \left(\frac{c}{b}\right)$ तथा $z = \left(\frac{c}{a}\right) + \left(\frac{a}{c}\right)$, हैए तो $xyz - x^2 - y^2 - z^2$ का मान क्या है?

- (a) -4 (b) 2 (c) -1 (d) -6

30. If $(a+b+c)=20$ & $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} = 30$, then find the value of $\left(\frac{a}{b} + \frac{b}{a} + \frac{b}{c} + \frac{c}{b} + \frac{c}{a} + \frac{a}{c}\right)$?

यदि $(a+b+c)=20$ & $\frac{1}{a} + \frac{1}{b} + \frac{1}{c} = 30$ है, तो $\left(\frac{a}{b} + \frac{b}{a} + \frac{b}{c} + \frac{c}{b} + \frac{c}{a} + \frac{a}{c}\right)$ का मान ज्ञात कीजिये?

- A) 597 C) 599
B) 600 D) cannot find

31. If $pq + 1 = q$ and $qr + 1 = r$, then $3r + \frac{3}{p} + 5pqr = ?$

- a) 2 b) 8 c) -2 d) -4

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32. a, b and c are three real numbers. If $x = a+2b-3c$, $y = 3a-b-2c$, $z = 5c-4a-b$ & $x, y, z \neq 0$, then the value of $\frac{x^2+y^2-z^2}{xy}$?

यदि a, b, c तीन वास्तविक संख्या हैं | $x = a + 2b - 3c$, $y = 3a - b - 2c$, $z = 5c - 4a - b$ & $x, y, z \neq 0$ तो $\frac{x^2+y^2-z^2}{xy}$?

- (a) 1 (b) -2 (c) 2 (d) -3

33. If $x + y = 3$, then what is the value of

$$x^3(x+1) + y^3(y+1) + 29xy - 4(xy-2)^2 = ?$$

- a)96 b)92 c)90 d)88

34. If $x = a + b + \frac{(a-b)^2}{4a+4b}$ & $y = \frac{a+b}{4} + \frac{ab}{a+b}$, then find the value of $(x-a)^2 - (y-b)^2$?

अगर $x = a + b + \frac{(a-b)^2}{4a+4b}$ & $y = \frac{a+b}{4} + \frac{ab}{a+b}$, तो $(x-a)^2 - (y-b)^2$ का मान ज्ञात कीजिए

- A) a^2
B) b^2
C) ab
D) a^2b^2

35. If $a + \frac{3}{b} = 3$ and $b + \frac{1}{c} = 1$ then find $abc = ?$

- a)4 b)-3 c)3 d)-6

36. If $x + \frac{1}{x} = a$, then $x^7 + \frac{1}{x^7} = ?$

यदि $x + \frac{1}{x} = a$ है, तो $x^7 + \frac{1}{x^7} = ?$

- A) $a^7 - 7a^5 + 14a^3 - 7a$ C) $a^7 - 6a^5 + 14a^3 - 5a$
B) $a^7 - 7a^5 + 13a^3 - 7a$ D) $a^7 - 7a^5 + 16a^3 - 13a$

37. What is the value of $\frac{a^2+ac}{a^2c-c^3} - \frac{a^2-c^2}{a^2c+2ac^2+c^3} - \frac{2c}{a^2-c^2} + \frac{3}{a+c}$?

$\frac{a^2+ac}{a^2c-c^3} - \frac{a^2-c^2}{a^2c+2ac^2+c^3} - \frac{2c}{a^2-c^2} + \frac{3}{a+c}$ का मान क्या है?

- (A) 0 (B) 1 (C) $\frac{ac}{a^2+c^2}$ (D) $\frac{6}{a+c}$

38. What is $\frac{x^2-y^2-z^2-2yz}{x^2+y^2-z^2+2xy} + \frac{x^2-y^2-z^2-2yz}{x^2-y^2+z^2-2xz}$ equal to?

$\frac{x^2-y^2-z^2-2yz}{x^2+y^2-z^2+2xy} + \frac{x^2-y^2-z^2-2yz}{x^2-y^2+z^2-2xz}$ किसके बराबर है? (CDS 2023)

- A) $\frac{x}{x+y-z}$
B) $\frac{y+z}{x+y-z}$
C) $\frac{2x}{x+y-z}$
D) $\frac{2y+2z}{x+y-z}$

39. The value of $\frac{a^2-(b-c)^2}{(a+c)^2-b^2} + \frac{b^2-(a-c)^2}{(a+b)^2-c^2} + \frac{c^2-(a-b)^2}{(b+c)^2-a^2}$ is:

$\frac{a^2-(b-c)^2}{(a+c)^2-b^2} + \frac{b^2-(a-c)^2}{(a+b)^2-c^2} + \frac{c^2-(a-b)^2}{(b+c)^2-a^2}$ का मान क्या होगा?

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(a) 3

(b) -1

(c) 1

(d) 2

(SSC CPO 2023)**40. If $96 - 64a^3 + \frac{8}{a^6} - \frac{48}{a^3} - t^3 = 0$, then what is the value of $a^2t + 4a^3$?**यदि $96 - 64a^3 + \frac{8}{a^6} - \frac{48}{a^3} - t^3 = 0$ है, तो $a^2t + 4a^3$ का मान क्या है?

A) 0

C) 1

B) 2

D) 3

41. If $p = \frac{a^2}{(b-a)(c-a)}$, $q = \frac{b^2}{(c-b)(a-b)}$, $r = \frac{c^2}{(a-c)(b-c)}$, then find $(p + q + r)^2$?यदि $p = \frac{a^2}{(b-a)(c-a)}$, $q = \frac{b^2}{(c-b)(a-b)}$, $r = \frac{c^2}{(a-c)(b-c)}$, तो $(p + q + r)^2$ ज्ञात करें? **(CDS 2023)**

A) 9

B) 4

C) 1

D) 0

42. What is $\frac{1}{x(x-y)(x-z)} + \frac{1}{y(y-z)(y-x)} + \frac{1}{z(z-x)(z-y)}$ equal to? $\frac{1}{x(x-y)(x-z)} + \frac{1}{y(y-z)(y-x)} + \frac{1}{z(z-x)(z-y)}$ किसके बराबर है?

A) 0

B) 1

C) $1/xyz$ D) $-1/xyz$ **43. If $y = \frac{2-x}{1+x}$, then $\frac{1}{y+1} + \frac{2y+1}{y^2-1} = ?$** (a) $\frac{(1+x)(2-x)}{2x-1}$ (b) $\frac{(1-x)(2+x)}{x-1}$ (c) $\frac{(1+x)(2-x)}{1-2x}$ (d) $\frac{(1+x)(1-2x)}{2-x}$ **44. If $\frac{x}{x^2+x+1} = a$, then find $\frac{x^2}{x^4+x^2+1}$ in terms of a?**यदि $\frac{x}{x^2+x+1} = a$ है, तो $\frac{x^2}{x^4+x^2+1}$ को a के पदों में ज्ञात कीजिये?A) $\frac{a^2}{1-2a}$ C) $\frac{a^2}{1-a}$ B) $\frac{a^2}{3-2a}$ D) $\frac{a}{1-2a}$ **45. What should be added to $\frac{1}{(x-2)(x-4)}$ to get $\frac{2x-5}{(x^2-5x+6)(x-4)}$?** $\frac{1}{(x-2)(x-4)}$ में क्या जोड़ा जाय कि $\frac{2x-5}{(x^2-5x+6)(x-4)}$ प्राप्त हो ?(A) $\frac{1}{x^2-7x+12}$ (B) $\frac{1}{x^2+7x+12}$ (C) $\frac{1}{x^2-7x-12}$ (D) $\frac{1}{x^2+7x-12}$ **46. What is $\frac{8x}{1-x^4} - \frac{4x}{x^2+1} + \frac{x+1}{x-1} - \frac{(x-1)}{x+1}$ equal to ?** $\frac{8x}{1-x^4} - \frac{4x}{x^2+1} + \frac{x+1}{x-1} - \frac{(x-1)}{x+1}$ किसके बराबर होगा ?

(A) 0

(B) 1

(C) 2

(D) 4

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47. If $a + b + c = abc$, then $\frac{(1-a^2)(1-b^2)}{ab} + \frac{(1-b^2)(1-c^2)}{bc} + \frac{(1-c^2)(1-a^2)}{ca} = ?$

यदि $a + b + c = abc$ है, तो $\frac{(1-a^2)(1-b^2)}{ab} + \frac{(1-b^2)(1-c^2)}{bc} + \frac{(1-c^2)(1-a^2)}{ca}$ का मान क्या है?

- (a) 0 (b) 2 (c) 4 (d) 3

48. If $bc + ca + ab = abc$, then $\frac{b+c}{bc(a-1)} + \frac{c+a}{ca(b-1)} + \frac{a+b}{ab(c-1)} = ?$

- (a) 0 (b) 1 (c) 2 (d) 3

49. If $xy + yz + zx = 1$, then $\left(\frac{x+y}{1-xy} + \frac{y+z}{1-yz} + \frac{z+x}{1-zx} \right) = ?$

- a) xyz b) $\frac{1}{xyz}$ c) 1 d) 3

50. If $abc = 1$, then find the value of $\frac{123}{1+a+ab} + \frac{123}{1+b+bc} + \frac{123}{1+c+ca} = ?$

यदि $abc = 1$ है, तो $\frac{123}{1+a+ab} + \frac{123}{1+b+bc} + \frac{123}{1+c+ca}$ का मान ज्ञात कीजिये?

- A) 3 B) 123 C) 41 D) 369

51. If $abc = 5$, what is the value of $\left(\frac{1}{1+a+b^{-1}} + \frac{1}{1+b+c^{-1}} + \frac{1}{1+c+a^{-1}} \right) = ?$

यदि $abc = 5$ है, तो $\left(\frac{1}{1+a+b^{-1}} + \frac{1}{1+b+c^{-1}} + \frac{1}{1+c+a^{-1}} \right)$ का मान कितना है?

- (a) 5
(b) 1
(c) $1/5$
(d) $(a+b+c)$

[SSC CGL 2022]

52. $ab(a-b) + bc(b-c) + ca(c-a)$ is equal to :

$ab(a-b) + bc(b-c) + ca(c-a)$ निम्नलिखित में से किसके बराबर है

- (a) $(a+b)(b-c)(c-a)$
(b) $(a-b)(b-c)(c-a)$
(c) $(b-a)(b-c)(c-a)$
(d) $(a-b)(b+c)(c-a)$

53. If $a+b+c=8$ and $ab+bc+ca=5$, then $bc(b+c)+ca(c+a)+ab(a+b)+3abc=?$

- a) 13 b) 40 c) 50 d) 32

54. If $a + b + c = 6$ and $a^2 + b^2 + c^2 = 38$, then what is the value of $a(b^2 + c^2) + b(c^2 + a^2) + c(a^2 + b^2) + 3abc$?

यदि $a + b + c = 6$ और $a^2 + b^2 + c^2 = 38$ है, तो $a(b^2 + c^2) + b(c^2 + a^2) + c(a^2 + b^2) + 3abc$ का मान ज्ञात कीजिए।

- (a) 3 (b) -3 (c) 6 (d) -6

55. If $a+b+c=7$, $ab+bc+ca=25$ and $abc=13$

then $a^2b + b^2a + b^2c + c^2b + a^2c + c^2a = ?$

- a) 136 b) 162 c) 127 d) 144

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56. If $a + b + c = 6$ & $\frac{a(b^2+c^2)+b(c^2+a^2)+c(a^2+b^2)}{abc} = 13$, then find $\frac{1}{a} + \frac{1}{b} + \frac{1}{c}$?

यदि $a + b + c = 6$ & $\frac{a(b^2+c^2)+b(c^2+a^2)+c(a^2+b^2)}{abc} = 13$ है, तो $\frac{1}{a} + \frac{1}{b} + \frac{1}{c}$ ज्ञात कीजिये?

A) 8/3

C) 4

B) 19/6

D) 2

57. What is the simplified value of $\frac{(x+y+z)(xy+yz+zx)-xyz}{(x+y)(y+z)(z+x)}$?

$\frac{(x+y+z)(xy+yz+zx)-xyz}{(x+y)(y+z)(z+x)}$ का सरलीकृत मान क्या है? (Mains 2021)

A) z

B) x

C) 1

D) y

58. If $\frac{x-a^2}{b+c} + \frac{x-b^2}{c+a} + \frac{x-c^2}{a+b} = 4(a+b+c)$, then find the value of x?

a) $(a+b+c)^2$ b) $a^2 + b^2 + c^2$ c) $ab+bc+ca$ d) $a^2 + b^2 + c^2 - ab - bc - ca$

59. If $\frac{m-a^2}{b^2+c^2} + \frac{m-b^2}{c^2+a^2} + \frac{m-c^2}{a^2+b^2} = 3$, then find the value of m?

a) $a^2 + b^2 - c^2$ b) $a^2 + b^2$ c) $a^2 + b^2 + c^2$ d) $a^2 - b^2 - c^2$

60. If $\frac{x^2+a^2+2c^2}{b+c} + \frac{x^2+b^2+2a^2}{c+a} + \frac{x^2+c^2+2b^2}{a+b} = 0$ then $x^2 = ?$

a) $-(a+b+c)^2$ b) $-(a^2+b^2+c^2)$ c) $abc-a^2-b^2-c^2$ d) $-(ab+bc+ca)$

61. Simplify $\frac{1}{2+2p} + \frac{1}{2+2q} + \frac{1}{2+2r}$, where $p = \frac{x}{y+z}$, if $q = \frac{y}{z+x}$ & $r = \frac{z}{x+y}$?

$\frac{1}{2+2p} + \frac{1}{2+2q} + \frac{1}{2+2r}$ को सरल करे, जहाँ $p = \frac{x}{y+z}$, if $q = \frac{y}{z+x}$ & $r = \frac{z}{x+y}$

A) 1

B) 2

C) $x+y+z$ D) $\frac{1}{2}$

62. If $x^2 = y + z$, $y^2 = z + x$ and $z^2 = x + y$, then $\frac{1}{1+x} + \frac{1}{1+y} + \frac{1}{1+z} = ?$

a) -1

b) 1

c) 2

d) 0

63. If $a^2 = by + cz$, $b^2 = cz + ax$, $c^2 = ax + by$, then $\frac{1}{2} \left[\frac{x}{a+x} + \frac{y}{b+y} + \frac{z}{c+z} \right] = ?$

a) 1

b) $\frac{1}{2}$ c) $a+b+c$

d) 2

64. If $b+c=ax$, $c+a=by$, $a+b=cz$, then the value of $\frac{1}{9} \left[\frac{1}{x+1} + \frac{1}{y+1} + \frac{1}{z+1} \right]$ is:

यदि $b+c=ax$, $c+a=by$, $a+b=cz$ है तो $\frac{1}{9} \left[\frac{1}{x+1} + \frac{1}{y+1} + \frac{1}{z+1} \right]$ का मान क्या है?

a) 0

b) 1

c) $\frac{1}{9}$ d) $\frac{1}{3}$

65. If $a^x=bc$, $b^y=ca$ and $c^z=ab$ then $\frac{x}{x+1} + \frac{y}{y+1} + \frac{z}{z+1} = ?$

a) 1

b) 2

c) 3

d) 0

BY GAGAN SIR

