

ALGEBRA (SHEET-01)

बीजगणित

UPDATED

CLASS ROOM SHEET

FOR ALL EXAMS

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 Maths By Aditya Ranjan

 Rankers Gurukul

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MATHS EXPERT



ALGEBRA / बीजगणित

(CLASSROOM SHEET-01)

1. If $x + \frac{1}{x} = 3$ Find

(i) $x^2 + \frac{1}{x^2}$

(ii) $x^3 + \frac{1}{x^3}$

(iii) $x^4 + \frac{1}{x^4}$

(iv) $x^5 + \frac{1}{x^5}$

(v) $x^6 + \frac{1}{x^6}$

(vi) $x^7 + \frac{1}{x^7}$

2. If $x - \frac{1}{x} = 4$, Find

(i) $x^2 + \frac{1}{x^2}$

(ii) $x^2 - \frac{1}{x^2}$

(iii) $x^3 - \frac{1}{x^3}$

(iv) $x^4 + \frac{1}{x^4}$

(v) $x^5 - \frac{1}{x^5}$

(vi) $x^6 + \frac{1}{x^6}$

3. If $a + \frac{1}{a} = 3$, then the value of $a^4 + \frac{1}{a^4}$ is:

यदि $a + \frac{1}{a} = 3$ है, तो $a^4 + \frac{1}{a^4}$ का मान क्या होगा?

SSC CPO 04/10/2023 (Shift-01)

(a) 27

(b) 81

(c) 48

(d) 47

4. If $a + \frac{1}{a} = 7$, then $a^5 + \frac{1}{a^5}$ is equal to:

यदि $a + \frac{1}{a} = 7$ है, तो $a^5 + \frac{1}{a^5}$ निम्न में से किसके बराबर है?

SSC CGL 17/07/2023 (Shift-02)

(a) 15127

(b) 13127

(c) 14527

(d) 11512

5. If $x + \frac{1}{x} = -6$, what will be the value of $x^5 + \frac{1}{x^5}$

यदि $x + \frac{1}{x} = -6$, है तो $x^5 + \frac{1}{x^5}$ का मान क्या होगा?

SSC CGL 17/07/2023 (Shift-03)

(a) -7776

(b) -6726

(c) -6730

(d) -6732

6. If $a + \frac{1}{a} = 3$, then $a^6 + \frac{1}{a^6}$ is equal to :

SSC CHSL 21/07/2019 (Shift-02)

(a) 319

(b) 322

(c) 780

(d) 730

7. If $\left(x - \frac{1}{x}\right) = 10$, what is the value of $x^4 + \frac{1}{x^4}$?

यदि $\left(x - \frac{1}{x}\right) = 10$ है, तो $x^4 + \frac{1}{x^4}$ का मान क्या है?

SSC CGL 26/07/2023 (Shift-03)

(a) 10404

(b) 10402

(c) 10406

(d) 10400

8. If $x - \frac{1}{x} = 10$, then $x^3 - \frac{1}{x^3}$ is equal to :

SSC CHSL 4/07/2019 (Shift-02)

(a) 970

(b) 1000

(c) 1030

(d) 1100

9. If $\left(3y - \frac{3}{y}\right) = 5$, find the value of $\left(y^2 + \frac{1}{y^2}\right)$.

यदि $\left(3y - \frac{3}{y}\right) = 5$ है, तो $\left(y^2 + \frac{1}{y^2}\right)$ का मान ज्ञात करें।

SSC CGL 19/07/2023 (Shift-02)

(a) $\frac{47}{9}$

(b) $\frac{49}{9}$

(c) $\frac{41}{9}$

(d) $\frac{43}{9}$

10. If $x - \frac{1}{x} = 13$, what will be the value of $x^4 + \frac{1}{x^4}$?

यदि $x - \frac{1}{x} = 13$ है, तो $x^4 + \frac{1}{x^4}$ का मान क्या होगा?

SSC CGL 03/12/2022 (Shift-01)

- (a) 28561 (b) 29243
(c) 27887 (d) 29239

11. If $\left(x - \frac{1}{x}\right) = 5$, then the value of $\left(x^5 - \frac{1}{x^5}\right)$ is :

यदि $\left(x - \frac{1}{x}\right) = 5$, तो $\left(x^5 - \frac{1}{x^5}\right)$ का मान है:

SSC CHSL 07/08/2023 Shift-02

- (a) 3775 (b) 3740
(c) 3715 (d) 3725

12. If $x - \frac{1}{x} = -6$, what will be the value of $x^5 - \frac{1}{x^5}$?

यदि $x - \frac{1}{x} = -6$ है, तो $x^5 - \frac{1}{x^5}$ का मान क्या होगा?

SSC CGL 18/07/2023 (Shift-02)

- (a) - 8898 (b) - 8896
(c) - 8886 (d) - 8892

13. If $\left(y - \frac{1}{y}\right) = 4$, find the value of $\left(y^6 + \frac{1}{y^6}\right)$.

यदि $\left(y - \frac{1}{y}\right) = 4$, है तो $\left(y^6 + \frac{1}{y^6}\right)$ का मान ज्ञात करें

SSC CGL 25/07/2023 (Shift-01)

- (a) 5774 (b) 4096
(c) 5776 (d) 5778

14. If $\sqrt{x} - \frac{1}{\sqrt{x}} = 4$, then $x^2 + \frac{1}{x^2}$ is equal to :

SSC CGL 10/06/2019 (Shift-01)

- (a) 192 (b) 326
(c) 322 (d) 256

15. If $\sqrt{x} - \frac{1}{\sqrt{x}} = \sqrt{6}$, then $x^2 + \frac{1}{x^2}$ is equal to :

SSC CGL 11/06/2019 (Shift-02)

- (a) 62 (b) 40
(c) 54 (d) 66

16. If $a - \frac{1}{a} = 4$, then the value of $a + \frac{1}{a}$ is:

यदि $a - \frac{1}{a} = 4$ है, तो $a + \frac{1}{a}$ का मान है:

SSC CPO 05.10.2023 (Shift-2)

- (a) $5\sqrt{5}$ (b) $4\sqrt{5}$
(c) $2\sqrt{5}$ (d) $3\sqrt{5}$

17. If $\left(x - \frac{1}{x}\right) = 0.4$, and $x > 0$, what is the value of $\left(x^2 - \frac{1}{x^2}\right)$?

यदि $\left(x - \frac{1}{x}\right) = 0.4$, और $x > 0$ तो $\left(x^2 - \frac{1}{x^2}\right)$ का मान क्या है?

SSC CHSL 07/08/2023 Shift-02

- (a) $\frac{4}{25}\sqrt{26}$ (b) $\frac{2}{25}\sqrt{29}$
(c) $\frac{7}{25}\sqrt{26}$ (d) $\frac{3}{25}\sqrt{29}$

18. If $\left(x^2 + \frac{1}{x^2}\right) = 6$ and $0 < x < 1$, what is the value of $x^4 - \frac{1}{x^4}$?

यदि $\left(x^2 + \frac{1}{x^2}\right) = 6$ और $0 < x < 1$ है, तो $x^4 - \frac{1}{x^4}$ का मान क्या होगा?

SSC CGL 26/07/2023 (Shift-01)

- (a) $24\sqrt{2}$ (b) $-24\sqrt{2}$
(c) $-12\sqrt{10}$ (d) $12\sqrt{10}$

19. If $x^2 - \frac{1}{x^2} = 4\sqrt{2}$, what is the value of $x^4 - \frac{1}{x^4}$?

यदि $x^2 - \frac{1}{x^2} = 4\sqrt{2}$ है, तो $x^4 - \frac{1}{x^4}$ का मान क्या है?

SSC CGL 27/07/2023 (Shift-02)

- (a) $16\sqrt{2}$ (b) $8\sqrt{2}$
(c) $24\sqrt{2}$ (d) $32\sqrt{2}$

20. If $\left(x + \frac{1}{x}\right) = 5\sqrt{2}$, and $x > 1$, what is the value of $\left(x^6 - \frac{1}{x^6}\right)$?

यदि $\left(x + \frac{1}{x}\right) = 5\sqrt{2}$, और $x > 1$, तो $\left(x^6 - \frac{1}{x^6}\right)$ का मान क्या है?

SSC CHSL 02/08/2023 Shift-02

- (a) $22970\sqrt{23}$ (b) $23030\sqrt{23}$
(c) $23060\sqrt{23}$ (d) $22960\sqrt{23}$

21. If $\left(x - \frac{1}{x}\right) = 2\sqrt{2}$, and $x > 1$, what is the value of $\left(x^6 - \frac{1}{x^6}\right)$.

यदि $\left(x - \frac{1}{x}\right) = 2\sqrt{2}$ और $x > 1$ है, तो $\left(x^6 - \frac{1}{x^6}\right)$ का मान क्या होगा?

SSC CGL 20/07/2023 (Shift-03)

- (a) $372\sqrt{6}$ (b) $384\sqrt{6}$
(c) $396\sqrt{6}$ (d) $420\sqrt{6}$

22. If $\left(x + \frac{1}{x}\right) = 5$, and $x > 1$, what is the value of $\left(x^8 - \frac{1}{x^8}\right)$?

यदि $\left(x + \frac{1}{x}\right) = 5$ और $x > 1$ है, तो $\left(x^8 - \frac{1}{x^8}\right)$ का मान क्या होगा?

SSC CGL 18/07/2023 (Shift-03)

- (a) $60605\sqrt{21}$ (b) $60615\sqrt{21}$
(c) $60705\sqrt{21}$ (d) $60725\sqrt{21}$

23. If $x + \frac{1}{x} = 8$, then find the value of $\frac{5x}{x^2 + 1 - 6x}$.

SSC CHSL 14/10/2020 (Shift- 03)

- (a) 2.5 (b) 6
(c) 5 (d) 6.5

24. If $x + \frac{1}{x} = 10$, then find the value of $\frac{7x}{x^2 + 1 - 8x}$.

SSC CHSL 03/06/2022 (Shift- 01)

- (a) 3.5 (b) 4.5
(c) 2.5 (d) 5.5

25. If $x + \frac{1}{x} = 5$, $x \neq 0$ then the value of

$\frac{x^4 + \frac{1}{x^2}}{x^2 - 3x + 1}$ is equal to :

SSC CHSL 20/10/2020 (Shift- 01)

- (a) 55 (b) 60
(c) 65 (d) 50

26. If $x - \frac{1}{x} = 5$, $x \neq 0$, then what is the value

of $\frac{x^6 + 3x^3 - 1}{x^6 - 8x^3 - 1}$?

SSC CGL TIER II 16/11/2020

- (a) $\frac{13}{12}$ (b) $\frac{11}{13}$
(c) $\frac{3}{8}$ (d) $\frac{4}{9}$

27. If $x^2 + 3x + 1 = 0$, then what is the value of $x^6 + \frac{1}{x^6}$?

SSC CGL 3/03/2020 (Shift- 02)

- (a) 324 (b) 322
(c) 318 (d) 327

28. If $x^2 - 2\sqrt{5}x + 1 = 0$, then what is the value of $x^5 + \frac{1}{x^5}$?

SSC CGL 5/03/2020 (Shift- 01)

- (a) $610\sqrt{5}$ (b) $408\sqrt{5}$
(c) $612\sqrt{5}$ (d) $406\sqrt{5}$

29. If $\frac{6x}{2x^2 + 5x - 2} = 1$, $x > 0$, then the value

of $x^3 + \frac{1}{x^3}$ is :

SSC CGL 07/06/2019 (Shift- 03)

- (a) $\frac{3}{8}\sqrt{17}$ (b) $\frac{5}{8}\sqrt{17}$
(c) $\frac{5}{16}\sqrt{17}$ (d) $\frac{3}{4}\sqrt{17}$

30. If $x^2 - 5x + 1 = 0$, then the value of

$$\frac{x^6 + x^4 + x^2 + 1}{5x^3} = ?$$

SSC CGL 01/12/2022 (Shift-01)

- (a) 30 (b) 25
(c) 23 (d) 28

31. If $x^2 - 3x + 1 = 0$, then the value of

$$\frac{x^4 + \frac{1}{x^2}}{x^2 + 5x + 1} \text{ is:}$$

SSC CGL MAINS 03/02/2022

- (a) $\frac{9}{4}$ (b) $\frac{27}{8}$
(c) $\frac{5}{2}$ (d) 2

32. If $x^2 - 3x - 1 = 0$, then the value of $(x^2 + 8x - 1)(x^3 + x^{-1})^{-1}$ is :

SSC CGL 07/06/2019 (Shift- 02)

- (a) $\frac{3}{8}$ (b) 8
(c) 1 (d) 3

33. If $5x + \frac{1}{3x} = 5$, find the value of $9x^2 + \frac{1}{25x^2}$

- (a) 0 (b) 5
(c) 4 (d) 7.8

34. If $3x + \frac{1}{2x} = 5$ then find $8x^3 + \frac{1}{27x^3}$

- (a) $118\frac{1}{2}$ (b) $30\frac{10}{27}$
(c) 0 (d) 1

35. If $x + \frac{1}{16x} = 3$, then the value of

$$16x^3 + \frac{1}{256x^3} \text{ is :}$$

SSC CGL TIER II 12/09/2019

- (a) 423 (b) 441
(c) 432 (d) 414

36. If $5x + \frac{1}{3x} = 4$, then the value of

$$9x^2 + \frac{1}{25x^2} \text{ is :}$$

SSC CGL 04/03/2020 (Shift- 01)

(a) $\frac{174}{125}$

(b) $\frac{144}{125}$

(c) $\frac{114}{25}$

(d) $\frac{119}{25}$

37. If $20x^2 - 30x + 1 = 0$, then what is the value of $25x^2 + \frac{1}{16x^2}$ is :

SSC CGL 05/03/2020 (Shift-02)

(a) $53\frac{1}{2}$

(b) $58\frac{1}{2}$

(c) $53\frac{3}{4}$

(d) $58\frac{3}{4}$

38. If $4a + \frac{1}{5a} = 4$, then the value of

$$25a^2 + \frac{1}{16a^2} \text{ is :}$$

SSC CHSL 21/10/2020 (Shift-03)

(a) $\frac{45}{2}$

(b) $\frac{55}{2}$

(c) $\frac{43}{2}$

(d) $\frac{45}{4}$

39. If $2x^2 + 5x + 1 = 0$, then one of the values of $x - \frac{1}{2x}$?

SSC CGL MAINS 29/01/2022

(a) $\frac{\sqrt{17}}{2}$

(b) $\frac{13}{2}$

(c) $\frac{5}{2}$

(d) $\frac{\sqrt{13}}{2}$

40. If $5x - \frac{1}{4x} = 6$, $x > 0$, then find the value

$$\text{of } 25x^2 - \frac{1}{16x^2}.$$

SSC CGL 21/04/2022 (Shift 01)

(a) $6\sqrt{41}$

(b) 36

(c) $\sqrt{246}$

(d) $6\sqrt{31}$

41. If $\left(4x^2 + \frac{1}{4x^2}\right) = 2$, then what is the value of

$$\left(8x^3 + \frac{1}{8x^3}\right) ?$$

(a) +2

(b) -2

(c) +4

(d) -4

42. If $\left(0.4x + \frac{1}{x}\right) = 5$, what is the value of $\left(0.064x^3 + \frac{1}{x^3}\right)$?

SSC CGL 20/04/2022 (Shift 01)

- (a) 119 (b) 125
(c) 110 (d) 105

43. If $x^2 + \frac{1}{x^2} = 27$, then find

- (i) $x + \frac{1}{x}$ (ii) $x - \frac{1}{x}$

44. If $x^4 + \frac{1}{x^4} = 23$, find

- (i) $x + \frac{1}{x}$ (ii) $x^3 + \frac{1}{x^3}$

45. If $x^8 - 1442x^4 + 1 = 0$, then a possible value of $x - \frac{1}{x}$ is :

SSC CGL TIER-II (11/09/2019)

- (a) 5 (b) 8
(c) 4 (d) 6

46. If $x > 0$ and $x^4 + \frac{1}{x^4} = 142$, what is the value of $x^7 + \frac{1}{x^7}$?

SSC CGL 20/07/2023 (Shift-02)

- (a) $1561\sqrt{14}$ (b) $1563\sqrt{14}$
(c) $1560\sqrt{14}$ (d) $1562\sqrt{14}$

47. If $x > 0$, and $x^4 + \frac{1}{x^4} = 2207$, what is the value of $x^7 + \frac{1}{x^7}$?

SSC CGL 02/12/2022 (Shift-01)

- (a) 710649 (b) 710647
(c) 710654 (d) 710661

48. If $x^4 + x^{-4} = 47$, ($x > 0$), then the value of $(2x - 3)^2$ is :

SSC CHSL 8/07/2019 (Shift-03)

- (a) 2 (b) 3
(c) 5 (d) 4

49. If $x^4 + x^{-4} = 194$, ($x > 0$), then the value of $(2x - 4)^2$ is :

SSC CHSL 09/07/2019 (Shift-01)

- (a) 15 (b) 20
(c) 12 (d) 16

50. If $x^4 + \frac{1}{x^4} = 322$, find $x^3 - \frac{1}{x^3}$

- (a) ± 76 (b) 76
(c) -76 (d) 95

51. If $x + \frac{1}{x} = 2$, find

- (i) $x^{20} + x^{19} + x^{18} + \dots + x^2 + x + 1$
(ii) $x^{49} - x^{48} + x^{47} - x^{46} + \dots + x^3 - x^2 + x + 1$

- (iii) $x^{12} + \frac{1}{x^{12}}$ (iv) $x^{17} + \frac{1}{x^9}$

- (v) $x^{15} - \frac{1}{x^{17}}$

52. If $p + \left(\frac{1}{p}\right) = 2$, then find the value of $p \times p \times p$.

SSC CHSL 18 /03/2020 (Shift-02)

- (a) 4 (b) 8
(c) 1 (d) 2

53. If $x + \frac{1}{x} = -2$

- (i) $x^{39} + x^{38} + \dots + x^2 + x + 1$
(ii) $x^{100} - x^{99} + x^{98} - x^{97} + \dots + x^2 - x + 1$

- (iii) $x^5 - \frac{1}{x^5}$

- (iv) $x^{18} + \frac{1}{x^{18}}$ (v) $x^7 - \frac{1}{x^9}$

54. If $x + \frac{1}{x} = 1$, find

- (i) $x^{18} + x^{12} + x^6 + 1$
(ii) $x^{99} + x^{96} + x^{93} + x^{90} + \dots + x^6 + x^3 + 1$
(iii) $x^{45} - x^{42} + x^{39} - x^{36} + \dots + x^9 - x^6 + x^3 + 1$
(iv) $x^{32} + x^{46} + x^{90} + 2$

55. If $x + \frac{1}{x} = \sqrt{3}$, find

- (i) $x^{90} + \frac{1}{x^{90}}$ (ii) $x^{92} + \frac{1}{x^{92}}$

- (iii) $x^{102} + x^{96} + x^{101} + x^{95} + x^{100} + x^{94}$

- (iv) $x^6 - \frac{1}{x^6} + 2$ (v) $x^{18} + x^{12} + x^6 + 1$

56. If $\left(x + \frac{1}{x}\right)^2 = 3$, then what is the value of $x^6 + x^{-6}$?

SSC CGL MAINS (08/08/2022)

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

57. If $x + \frac{1}{x} = \sqrt{3}$, then the value of $x^{18} + x^{12} + x^6 + 1$ is :

SSC CHSL 21/10/2020 (Shift- 03)

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

58. If $x + \frac{1}{x} = -\sqrt{3}$ then $x^{67} + x^{53} + x^{43} + x^{29} + x^{24} + x^{12} + x^6 + 3$ is

- (a) $\sqrt{3}$ (b) 0
(c) $2(2 + \sqrt{3})$ (d) $2(2 - \sqrt{3})$

59. If $x = 2 + \sqrt{3}$, find $x + \frac{1}{x}$

- (a) 5 (b) 4
(c) -4 (d) $2\sqrt{3}$

60. If $x = 7 + 4\sqrt{3}$ then $x - \frac{1}{x}$

- (a) $8\sqrt{3}$ (b) 4
(c) -4 (d) $-2\sqrt{3}$

61. If $x = 2 + \sqrt{5}$ then the value of $x^3 - x^3$ is :

SSC CHSL 08/07/2019 (Shift-03)

- (a) -52 (b) 52
(c) 76 (d) -76

62. If $x = 3 + 2\sqrt{2}$, then the value of $\sqrt{x} - \frac{1}{\sqrt{x}}$ is:

SSC CHSL 26/10/2020 (Shift-03)

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

63. If $x = 1 + \sqrt{2}$, then the value of $\sqrt{x} + \left(\frac{1}{\sqrt{x}}\right)$ is:

SSC CHSL 17/03/2020 (Shift-03)

- (a) 2.1014 (b) 2.1973
(c) 1.9876 (d) 1.9996

64. If $p = 7 + 4\sqrt{3}$, then what is the value of $\frac{p^6 + p^4 + p^2 + 1}{p^3}$?

SSC CGL 06/12/2022 (Shift-02)

- (a) 2617 (b) 2167
(c) 2716 (d) 2176

65. If $P = 7 + 4\sqrt{3}$ and $PQ = 1$, then what is the value of $\left(\frac{1}{P^2} + \frac{1}{Q^2}\right) = ?$

- (a) 148 (b) 189
(c) 194 (d) 204

66. If $x = \frac{\sqrt{5} - \sqrt{4}}{\sqrt{5} + \sqrt{4}}$ and $y = \frac{\sqrt{5} + \sqrt{4}}{\sqrt{5} - \sqrt{4}}$ then the value of $\frac{x^2 - xy + y^2}{x^2 + xy + y^2} = ?$

SSC CGL 08/12/2022 (Shift-02)

- (a) $\frac{361}{363}$ (b) $\frac{341}{343}$
(c) $\frac{384}{387}$ (d) $\frac{321}{323}$

67. If $m + \frac{1}{m-3} = 5$, then $(m-3)^8 + \frac{1}{(m-3)^8} = ?$

- (a) 2 (b) 0
(c) -2 (d) 15

68. If $x + \frac{1}{x-9} = 11$, then $(x-11)^{12} + \frac{1}{(x-11)^{12}} = ?$

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

69. If $a + \frac{1}{a-4} = 6$, then $(a-3)^7 + \frac{1}{(a-7)^3} = ?$

- (a) $63\frac{7}{8}$ (b) $255\frac{1}{8}$

- (c) $127\frac{7}{8}$ (d) 216

70. If $x^2 - 22x + 111 = 0$, then what is the value of $(x-8)^2 - \frac{1}{(x-8)^2} = ?$

यदि $x^2 - 22x + 111 = 0$ तो $(x-8)^2 - \frac{1}{(x-8)^2} = ?$

- (a) $12\sqrt{10}$ (b) $8\sqrt{5}$
(c) $8\sqrt{3}$ (d) 18

71. If $x^2 + 13x + 39 = 9$, then $(x+8)^5 - \frac{1}{(x+8)^5} = ?$

- (a) 393 (b) 396
(c) 392 (d) 394

72. If $x^2 - 12x + 33 = 0$, then what is the value

of $(x-4)^4 + \frac{1}{(x-4)^4} = ?$

यदि $x^2 - 12x + 33 = 0$ तो $(x-4)^4 + \frac{1}{(x-4)^4} =$

का मान क्या है?

- (a) 227 (b) 326
(c) 167 (d) 194

73. If $(x-a)(x-b) = 1$ and $a-b+5=0$, then

$(x-a)^3 - \frac{1}{(x-a)^3} = ?$

यदि $(x-a)(x-b) = 1$ और $a-b+5=0$ तो

$(x-a)^3 - \frac{1}{(x-a)^3} = ?$

(a) 110

(b) 1

(c) 125

(d) 140

74. If $x^5 - \frac{1}{x^5} = \sqrt{7}$, then find $x^{35} - \frac{1}{x^{35}} = ?$

(a) $791\sqrt{7}$

(b) $789\sqrt{7}$

(c) $790\sqrt{7}$

(d) $792\sqrt{7}$

75. If $3\sqrt{x} + \frac{1}{2\sqrt{x}} = 3$, $x > 0$ then find $x^2(18x^2 - 7)?$

यदि $3\sqrt{x} + \frac{1}{2\sqrt{x}} = 3$, $x > 0$ है, तो $x^2(18x^2 - 7)$ ज्ञात कीजिए?

(a) $-\frac{1}{36}$

(b) $-\frac{2}{63}$

(c) $-\frac{1}{72}$

(d) $-\frac{8}{81}$

ANSWER KEY

1.(i)7 (ii)18 (iii)47 (iv)123 (v)322 (vi)843

2.(i)18 (ii) $8\sqrt{5}$ (iii)76 (iv)322 (v)1364 (vi)5778

3.(d)

4.(a)

5.(b)

6.(b)

7.(b)

8.(c)

9.(d)

10.(d)

11.(a)

12.(c)

13.(d)

14.(c)

15.(a)

16.(c)

17.(a)

18.(a)

19.(c)

20.(b)

21.(c)

22.(a)

23.(a)

24.(a)

25.(a)

26.(a)

27.(b)

28.(a)

29.(b)

30.(c)

31.(a)

32.(c)

33.(d)

34.(b)

35.(a)

36.(c)

37.(c)

38.(a)

39.(a)

40.(a)

41.(d)

42.(a)

43.(i) $\sqrt{29}$ (ii) 5

44.(i) $\sqrt{7}$ (ii) $4\sqrt{7}$

45.(d)

46.(a)

47.(b)

48.(c)

49.(c)

50.(a)

51.(i) 21

(ii) 2

(iii) 2

(iv) 2

(v) 0

52.(c)

53.(i) 0

(ii) 101

(iii) 0

(iv) 2

(v) 0

54.(i) 4

(ii) 0

(iii) -14

(iv) 2

55.(i) -2

(ii) -1

(iii) 0

(iv) 2

(v) 0

56.(c)

57.(a)

58.(c)

59.(b)

60.(a)

61.(c)

62.(a)

63.(b)

64.(c)

65.(c)

66.(d)

67.(a)

68.(a)

69.(c)

70.(a)

71.(a)

72.(d)

73.(d)

74.(a)

75.(c)