EduSahara™ Assignment

Name : Linear Equations Complex Problems

Chapter : Linear Equations in One Variable

Grade : SSC Grade VIII

License : Non Commercial Use

1. Solve : $\frac{(-x)}{3} + \frac{(x+4)}{4} = \frac{(-x+4)}{6}$

(i) -1 (ii) -6 (iii) -4 (iv) -3 (v) -5

2. Solve : $\frac{(-x+2)}{2} + \frac{(x+2)}{4} = (x+3)$

(i) $(\frac{-8}{5})$ (ii) $(\frac{-4}{3})$ (iii) $(\frac{-6}{5})$ (iv) $(\frac{-8}{7})$ (v) $(\frac{-4}{5})$

3. Solve : $\frac{(x+1)}{6} + (x+5) = \frac{(-x-4)}{12}$

(i) $(\frac{-22}{5})$ (ii) -4 (iii) $(\frac{-14}{3})$ (iv) $(\frac{-30}{7})$ (v) $(\frac{-24}{5})$

4. Solve : $(x-1) + \frac{(-x+2)}{6} = \frac{(-x+4)}{2}$

(i) -1 (ii) 4 (iii) 3 (iv) 1 (v) 2

5. Solve : $(-x+5) + \frac{(-x+3)}{5} = (x+3)$

(i) 1 (ii) $\frac{13}{11}$ (iii) $\frac{15}{13}$ (iv) $\frac{11}{9}$ (v) $\frac{15}{11}$

6. Solve : $(x-1) + (-x+3) = \frac{(-x-5)}{3}$

(i) -12 (ii) -11 (iii) -9 (iv) -10 (v) -14

7. Solve : $\frac{(-x+2)}{5} + \frac{(-x+5)}{6} = \frac{(-x+5)}{7}$

(i) $\frac{7}{3}$ (ii) $\frac{107}{47}$ (iii) $\frac{109}{47}$ (iv) $\frac{111}{47}$ (v) $\frac{113}{49}$

8. Solve : $\frac{(-5x-4)}{6} + \frac{(3x-4)}{3} = \frac{(-x+1)}{2}$

(i) $\frac{17}{4}$ (ii) $\frac{7}{2}$ (iii) $\frac{15}{4}$ (iv) $\frac{9}{2}$ (v) $\frac{13}{4}$

---

9. Solve : $\frac{(4x-5)}{2} + \frac{(-x-4)}{10} = (4x-2)$

(i) $(\frac{-1}{7})$ (ii) $(\frac{-5}{7})$ (iii) $(\frac{-3}{5})$ (iv) $(\frac{-1}{3})$ (v) $(\frac{-3}{7})$

---

10. Solve : $\frac{(-2x+2)}{10} + (-x-3) = \frac{(-x-3)}{2}$

(i) $(\frac{-11}{7})$ (ii) $(\frac{-5}{3})$ (iii) $(\frac{-11}{5})$ (iv) $(\frac{-15}{7})$ (v) $(\frac{-13}{7})$

---

11. Solve : $(-5x-5) + \frac{4x}{3} = \frac{(-5x-3)}{2}$

(i) -4 (ii) -6 (iii) -3 (iv) -2 (v) -1

---

12. Solve : $(-x-4) + \frac{4x}{5} = 5x$

(i) $(\frac{-2}{3})$ (ii) $(\frac{-10}{13})$ (iii) $(\frac{-12}{13})$ (iv) $(\frac{-10}{11})$ (v) $(\frac{-8}{13})$

---

13. Solve : $(-4x-1) + (2x+3) = \frac{(-5x+3)}{10}$

(i) $\frac{19}{15}$ (ii) $\frac{17}{15}$ (iii) $\frac{15}{13}$ (iv) $\frac{19}{17}$ (v) 1

---

14. Solve : $\frac{(-x+4)}{5} + \frac{(-2x+2)}{4} = \frac{(-4x+3)}{6}$

(i) 24 (ii) 23 (iii) 25 (iv) 22 (v) 27

15. Solve : $\frac{(6x-3)}{(7x-4)} = \frac{(6x-6)}{(7x+1)}$

(i) $\frac{9}{19}$ (ii) $\frac{9}{17}$ (iii) $\frac{11}{17}$ (iv) $\frac{7}{17}$ (v) $\frac{3}{5}$

---

16. Solve : $\frac{(-9)}{(-6x+8)} = \frac{1}{(-6x-8)}$

(i) $(\frac{-14}{13})$ (ii) $(\frac{-18}{17})$ (iii) $(\frac{-14}{15})$ (iv) $(\frac{-6}{5})$ (v) $(\frac{-16}{15})$

---

17. Solve : $\frac{(3x+4)}{(9x+8)} = \frac{3}{(-8)}$

(i) $(\frac{-18}{17})$ (ii) $(\frac{-58}{53})$ (iii) $(\frac{-56}{51})$ (iv) $(\frac{-54}{49})$ (v) $(\frac{-58}{51})$

---

18. Solve : $-\frac{5}{(5x+7)} - \frac{4}{(5x-7)} = -\frac{9}{5x}$

(i) $\frac{87}{7}$ (ii) 13 (iii) $\frac{63}{5}$ (iv) $\frac{61}{5}$

---

19. Solve : $-\frac{8}{(x+9)} - \frac{4}{(x-9)} = -\frac{12}{x}$

(i) 28 (ii) 30 (iii) 26 (iv) 27 (v) 24

---

20. Solve : $-\frac{7}{(x+7)} + \frac{6}{(x+8)} = \frac{6}{(x+8)} - \frac{7}{(x-8)}$

(i) -7 (ii) -5 (iii) -8 (iv) -9 (v) -11

---

21. Solve : $-\frac{2}{(x-5)} - \frac{3}{(x-3)} = -\frac{3}{(x-3)} - \frac{2}{(x+2)}$

(i) 5 (ii) 3 (iii) 0 (iv) 4 (v) 2

Assignment Key

1) (iii)	2) (iii)	3) (i)	4) (v)	5) (ii)	6) (ii)
7) (iii)	8) (iii)	9) (v)	10) (v)	11) (iii)	12) (ii)
13) (ii)	14) (i)	15) (ii)	16) (v)	17) (iii)	18) (iii)
19) (iv)	20) (iii)	21) (ii)			

Copyright © Small Systems Computing Pvt. Ltd.