EduSahara™ Assignment

Name : Linear Equation Complex Problems

Chapter : Linear Equations

Grade : ICSE Grade VII

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1. Solve : $\frac{(x-3)}{16} + \frac{(-x)}{4} = \frac{(-x-3)}{8}$

(i) 2 (ii) 6 (iii) 4 (iv) 0 (v) 3

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

(i) $(\frac{-19}{2})$ (ii) $(\frac{-21}{2})$ (iii) $(\frac{-37}{4})$ (iv) $(\frac{-17}{2})$ (v) -10

3. Solve : $\frac{(x-3)}{18} + (x+5) = \frac{(x-2)}{2}$

(i) $(\frac{-21}{2})$ (ii) -11 (iii) $(\frac{-19}{2})$ (iv) $(\frac{-23}{2})$ (v) $(\frac{-41}{4})$

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

(i) $(\frac{-16}{7})$ (ii) $(\frac{-18}{7})$ (iii) -2 (iv) $(\frac{-20}{9})$ (v) $(\frac{-12}{5})$

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

(i) -24 (ii) -27 (iii) -26 (iv) -23 (v) -25

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

(i) 4 (ii) 1 (iii) 5 (iv) 2 (v) 3

7. Solve : $\frac{(-x+5)}{4} + \frac{(-x+1)}{7} = \frac{(x+3)}{4}$

(i) 2 (ii) 1 (iii) 3 (iv) 0 (v) -1

8. Solve : $\frac{5x}{2} + \frac{(4x+2)}{7} = \frac{(3x+5)}{14}$

(i) $\frac{1}{40}$ (ii) $\frac{3}{40}$ (iii) $\frac{1}{42}$ (iv) $(\frac{-1}{40})$ (v) $\frac{1}{38}$

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

(i) $\frac{8}{25}$ (ii) $\frac{4}{25}$ (iii) $\frac{2}{9}$ (iv) $\frac{6}{23}$ (v) $\frac{6}{25}$

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

(i) $\frac{29}{28}$ (ii) $\frac{11}{10}$ (iii) $\frac{29}{26}$ (iv) $\frac{33}{28}$ (v) $\frac{31}{28}$

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

(i) $(\frac{-1}{3})$ (ii) $(\frac{-7}{17})$ (iii) $(\frac{-7}{19})$ (iv) $(\frac{-5}{19})$ (v) $(\frac{-9}{19})$

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12. Solve : $(-2x-1) + \frac{(3x-1)}{2} = 2x$

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

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

(i) $\frac{3}{22}$ (ii) $\frac{9}{64}$ (iii) $\frac{7}{64}$ (iv) $\frac{11}{64}$ (v) $\frac{9}{62}$

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14. Solve : $\frac{(-2x-2)}{9} + \frac{(-5x+3)}{7} = \frac{(x+3)}{2}$

(i) $(\frac{-163}{179})$ (ii) $(\frac{-163}{181})$ (iii) $(\frac{-165}{181})$ (iv) $(\frac{-161}{181})$ (v) $(\frac{-163}{183})$

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

(i) 0 (ii) 1 (iii) 2 (iv) 4 (v) -2

16. Solve : $\frac{7}{(7x-5)} = \frac{2}{(7x+3)}$

(i) $(\frac{-33}{35})$ (ii) $(\frac{-31}{33})$ (iii) $(\frac{-31}{37})$ (iv) $(\frac{-29}{35})$ (v) $(\frac{-31}{35})$

17. Solve : $\frac{(-3x-7)}{(9x-4)} = \frac{(-1)}{2}$

(i) 8 (ii) 6 (iii) 4 (iv) 7 (v) 5

18. Solve : $-\frac{9}{(3x-2)} - \frac{8}{(3x+2)} = -\frac{17}{3x}$

(i) $(\frac{-32}{3})$ (ii) -12 (iii) $(\frac{-56}{5})$ (iv) $(\frac{-34}{3})$

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

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

20. Solve : $-\frac{2}{(x-7)} - \frac{1}{(x-1)} = \frac{7}{(x-1)} - \frac{10}{(x-3)}$

(i) 11 (ii) 14 (iii) 16 (iv) 12 (v) 13

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

(i) $\frac{1}{2}$ (ii) $\frac{5}{6}$ (iii) $\frac{5}{8}$ (iv) $\frac{7}{6}$ (v) $\frac{5}{4}$

Assignment Key

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

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