EduSahara™ Assignment

Name : Linear Equations Complex Problems

Chapter : Linear Equations and Simultaneous Linear Equations

Grade : ICSE Grade IX

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

(i) $(\frac{-9}{4})$ (ii) $(\frac{-3}{2})$ (iii) $(\frac{-5}{2})$ (iv) -3 (v) $(\frac{-7}{2})$

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

(i) $(\frac{-5}{9})$ (ii) $(\frac{-5}{11})$ (iii) $(\frac{-5}{13})$ (iv) $(\frac{-3}{11})$ (v) $(\frac{-7}{11})$

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

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

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

(i) $(\frac{-52}{21})$ (ii) $(\frac{-50}{19})$ (iii) $(\frac{-46}{19})$ (iv) $(\frac{-44}{17})$ (v) $(\frac{-48}{19})$

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

(i) -22 (ii) -23 (iii) -21 (iv) -18 (v) -20

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

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

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

(i) $(\frac{-1}{11})$ (ii) $(\frac{-1}{13})$ (iii) $(\frac{-1}{15})$ (iv) $\frac{1}{13}$ (v) $(\frac{-3}{13})$

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

(i) 15 (ii) 13 (iii) 14 (iv) 11 (v) 16

9. Solve : $\frac{5(-5x-1)}{16} = (5x-1)$

(i) $\frac{11}{105}$ (ii) $\frac{13}{105}$ (iii) $\frac{11}{107}$ (iv) $\frac{3}{35}$ (v) $\frac{11}{103}$

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

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

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

(i) $(\frac{-3}{13})$ (ii) $(\frac{-11}{41})$ (iii) $(\frac{-9}{43})$ (iv) $(\frac{-9}{41})$ (v) $(\frac{-7}{41})$

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

(i) 37 (ii) 39 (iii) 38 (iv) 36 (v) 41

13. Solve : $(-x+1) + (5x-2) = \frac{(-5x+1)}{7}$

(i) $\frac{8}{35}$ (ii) $\frac{8}{33}$ (iii) $\frac{10}{33}$ (iv) $\frac{2}{11}$ (v) $\frac{8}{31}$

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

(i) $(\frac{-69}{121})$ (ii) $(\frac{-69}{119})$ (iii) $(\frac{-67}{121})$ (iv) $(\frac{-71}{121})$ (v) $(\frac{-23}{41})$

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

(i) $\frac{13}{36}$ (ii) $\frac{5}{12}$ (iii) $\frac{13}{38}$ (iv) $\frac{13}{34}$ (v) $\frac{11}{36}$

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

(i) $(\frac{-7}{8})$ (ii) $(\frac{-5}{6})$ (iii) $(\frac{-1}{2})$ (iv) $(\frac{-5}{8})$ (v) $(\frac{-3}{8})$

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17. Solve : $\frac{(4x-1)}{(7x+9)} = \frac{(-4)}{8}$

(i) $(\frac{-3}{5})$ (ii) $(\frac{-7}{15})$ (iii) $(\frac{-7}{13})$ (iv) $(\frac{-1}{3})$ (v) $(\frac{-7}{17})$

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18. Solve : $\frac{5}{(5x-5)} + \frac{6}{(5x+5)} = \frac{11}{5x}$

(i) 9 (ii) 10 (iii) 11 (iv) 12 (v) 13

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

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

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

(i) 12 (ii) 8 (iii) 10 (iv) 13 (v) 11

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

(i) $(\frac{-13}{17})$ (ii) $(\frac{-13}{19})$ (iii) $(\frac{-15}{17})$ (iv) $(\frac{-13}{15})$ (v) $(\frac{-11}{17})$

Assignment Key

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