

EduSahara™ Learning Center Assignment**Grade : Class VII, ICSE****Chapter : Linear Equations****Name : Linear Equation Complex Problems****Licensed To : Teachers and Students for non-commercial use**

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

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

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

(i) $\frac{13}{4}$ (ii) $\frac{7}{2}$ (iii) $\frac{19}{6}$ (iv) $\frac{17}{6}$ (v) $\frac{25}{8}$

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

(i) $\frac{26}{9}$ (ii) $\frac{28}{9}$ (iii) $\frac{30}{11}$ (iv) $\frac{8}{3}$ (v) $\frac{22}{7}$

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

(i) $\frac{23}{5}$ (ii) $\frac{21}{5}$ (iii) $\frac{13}{3}$ (iv) $\frac{19}{5}$ (v) $\frac{29}{7}$

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

(i) $\frac{46}{13}$ (ii) $\frac{34}{9}$ (iii) $\frac{40}{11}$ (iv) $\frac{42}{11}$ (v) $\frac{38}{11}$

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

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(i) -5 (ii) -3 (iii) -2 (iv) -4 (v) -7

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

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

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

(i) $\frac{13}{10}$ (ii) $\frac{13}{12}$ (iii) $\frac{9}{8}$ (iv) $\frac{9}{10}$ (v) $\frac{11}{10}$

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

(i) $(\frac{-73}{28})$ (ii) $(\frac{-71}{28})$ (iii) $(\frac{-77}{30})$ (iv) $(\frac{-75}{28})$ (v) $(\frac{-69}{26})$

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

(i) $\frac{15}{7}$ (ii) $\frac{11}{5}$ (iii) $\frac{13}{7}$ (iv) $\frac{19}{9}$ (v) $\frac{17}{7}$

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

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

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

(i) $\frac{52}{31}$ (ii) $\frac{56}{33}$ (iii) $\frac{52}{29}$ (iv) $\frac{54}{31}$ (v) $\frac{56}{31}$

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

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

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

(i) $\frac{56}{27}$ (ii) $\frac{54}{25}$ (iii) $\frac{58}{27}$ (iv) $\frac{20}{9}$ (v) $\frac{62}{29}$

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

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

16. Solve : $\frac{9}{(8x-6)} = \frac{5}{(8x+6)}$

(i) $(\frac{-23}{8})$ (ii) $(\frac{-19}{8})$ (iii) $(\frac{-5}{2})$ (iv) $(\frac{-21}{8})$ (v) $(\frac{-17}{6})$

17. Solve : $\frac{(3x-5)}{(-3x-3)} = \frac{9}{(-1)}$

(i) $(\frac{-4}{3})$ (ii) $(\frac{-6}{5})$ (iii) -2 (iv) $(\frac{-2}{3})$

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

(i) $\frac{7}{2}$ (ii) 5 (iii) $\frac{9}{2}$ (iv) $\frac{17}{4}$ (v) $\frac{11}{2}$

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

- (i) -1 (ii) $(-\frac{1}{3})$ (iii) $\frac{1}{3}$ (iv) $(-\frac{1}{5})$
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20. Solve : $-\frac{9}{(x+8)} + \frac{8}{(x+7)} = \frac{3}{(x+7)} - \frac{4}{(x+2)}$

- (i) $(-\frac{180}{29})$ (ii) $(-\frac{166}{27})$ (iii) $(-\frac{178}{29})$ (iv) $(-\frac{190}{31})$ (v) $(-\frac{176}{29})$
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21. Solve : $\frac{2}{(x-1)} - \frac{6}{(x-4)} = -\frac{2}{(x-4)} - \frac{2}{(x+5)}$

- (i) -1 (ii) $\frac{1}{2}$ (iii) $(-\frac{3}{2})$ (iv) $(-\frac{1}{2})$ (v) $(-\frac{1}{4})$
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Assignment Key

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