

EduSahara™ Learning Center Assignment**Grade : Class IX, ICSE****Chapter : Linear Equations and Simultaneous Linear Equations****Name : Two Variable Problems**

1. Solve $(-3x + 7y - 41) = 0$
 $(-10x - 2y + 66) = 0$

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

2. Solve $(2x + 4y) = 0$
 $(x - y) = 0$

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

3. Solve $(4x + 3y - 3) = 4$
 $(-5x + y + 3) = (-5)$

(i) $(\frac{11}{7}, \frac{3}{19})$ (ii) $(\frac{33}{19}, \frac{1}{19})$ (iii) $(\frac{31}{19}, \frac{3}{19})$
 (iv) $(\frac{33}{19}, \frac{3}{17})$ (v) $(\frac{11}{7}, \frac{3}{17})$

4. Solve $(x - y + 5) = (2x - 3y + 1)$
 $(-5x + 2y + 5) = (5x - 4y + 5)$

(i) $((-\frac{12}{7}), (-\frac{20}{7}))$ (ii) $((-\frac{14}{9}), (-\frac{20}{7}))$ (iii) $((-\frac{10}{7}), (-\frac{22}{7}))$
 (iv) $((-\frac{10}{7}), (-\frac{16}{5}))$ (v) $((-\frac{14}{9}), (-\frac{16}{5}))$

5. Solve $(7x - 2y + 47) = 0$
 $(4x - 11y + 17) = 0$

(i) (-7, -1) (ii) (-7, -2) (iii) (-4, -1) (iv) (-6, -1) (v) (-7, -4)

6. Solve $(-4x + 4y + 1) = 0$
 $(2x - y - 3) = 0$

(i) $(\frac{13}{4}, \frac{3}{2})$ (ii) $(\frac{13}{4}, 3)$ (iii) $(\frac{5}{2}, \frac{5}{2})$
 (iv) $(\frac{5}{2}, 3)$ (v) $(\frac{11}{4}, \frac{5}{2})$

7. Solve $(-5x - 2y - 2) = 2$
 $(-3x - 4y - 5) = 4$

- (i) $(\frac{1}{9}, (\frac{-33}{14}))$ (ii) $(\frac{1}{9}, (\frac{-29}{12}))$ (iii) $(\frac{1}{7}, (\frac{-33}{14}))$
 (iv) $(\frac{3}{7}, (\frac{-29}{12}))$ (v) $(\frac{3}{7}, (\frac{-5}{2}))$

8. Solve $(-3x - 4y + 3) = (-2x + 4y + 4)$
 $(-x + 5y + 4) = (5x + y - 5)$

- (i) $(\frac{19}{15}, (\frac{-15}{52}))$ (ii) $(\frac{19}{13}, (\frac{-17}{52}))$ (iii) $(\frac{19}{13}, (\frac{-3}{10}))$
 (iv) $(\frac{17}{13}, (\frac{-15}{52}))$ (v) $(\frac{19}{15}, (\frac{-3}{10}))$

9. Solve $(-2x - 7y - 19) = 0$
 $(9x + 6y + 9) = 0$

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

10. Solve $(2x + 2y - 2) = 0$
 $(3x - 2y + 5) = 0$

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

11. Solve $(4x + 2y + 4) = 3$
 $(-3x + 4y - 4) = 5$

- (i) $(0, \frac{3}{2})$ (ii) $(2, \frac{1}{2})$ (iii) $(0, 2)$
 (iv) $(2, 2)$ (v) $(-1, \frac{3}{2})$

12. Solve $(-x - 5y - 5) = (5x - 2y)$
 $(-4x + 3y + 4) = (2x + 4y - 5)$

- (i) $(\frac{12}{5}, -7)$ (ii) $(\frac{8}{3}, -7)$ (iii) $(\frac{10}{3}, -8)$
 (iv) $(\frac{10}{3}, -9)$ (v) $(\frac{12}{5}, -8)$

Assignment Key

- 1) (i)
- 2) (v)
- 3) (iii)
- 4) (i)
- 5) (i)
- 6) (v)
- 7) (iii)
- 8) (iv)
- 9) (iii)
- 10) (i)
- 11) (v)
- 12) (ii)