

EduSahara™ Learning Center Assignment

Grade : Class IX, ICSE

Chapter : Linear Equations and Simultaneous Linear Equations

Name : Simultaneous Equations

1. Solve $(x + y - 5) = 0$
 $(-13x - 39) = 0$

(i) $(-3, 6)$ (ii) $(-3, 7)$ (iii) $(-1, 8)$ (iv) $(-2, 8)$ (v) $(-3, 8)$

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

(i) $(\frac{44}{21}, \frac{33}{17})$ (ii) $(\frac{42}{19}, \frac{33}{19})$ (iii) $(\frac{42}{19}, \frac{33}{17})$

(iv) $(\frac{44}{21}, \frac{35}{19})$ (v) $(\frac{40}{19}, \frac{35}{19})$

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

(i) $(\frac{16}{13}, \frac{18}{13})$ (ii) $(\frac{18}{13}, \frac{16}{11})$ (iii) $(\frac{18}{13}, \frac{16}{13})$

(iv) $(\frac{6}{5}, \frac{16}{11})$ (v) $(\frac{6}{5}, \frac{18}{13})$

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

(i) $(0, -2)$ (ii) $(0, -1)$ (iii) $(1, -2)$

(iv) $(-1, -1)$ (v) $(1, -4)$

Solve the following pair of equations :

5. $\frac{5}{x} - \frac{6}{y} = 57$

$\frac{12}{x} + \frac{4}{y} = 8$

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

(iv) $(\frac{1}{3}, \frac{1}{7})$ (v) $(\frac{1}{3}, (\frac{-1}{9}))$

Solve the following pair of equations :

6.
$$-x + \frac{3}{y} = 14$$

$$-2x + \frac{4}{y} = 18$$

(i) $(2, \frac{1}{5})$ (ii) $(4, \frac{1}{5})$ (iii) $(1, (\frac{-1}{5}))$

(iv) $(1, \frac{1}{5})$ (v) $(1, \frac{1}{3})$

Solve the following pair of equations :

7.
$$-\frac{17}{x} + y = (-42)$$

$$-\frac{15}{x} - 3y = (-72)$$

(i) $(1, 9)$ (ii) $(\frac{1}{3}, 9)$ (iii) $(\frac{1}{3}, 8)$

(iv) $(\frac{1}{5}, 9)$ (v) $(\frac{1}{3}, 6)$

Solve the following pair of equations :

8.
$$\frac{11}{(x+y)} + \frac{15}{(x-y)} = (-43)$$

$$\frac{8}{(x+y)} + \frac{4}{(x-y)} = 24$$

(i) $(\frac{1}{112}, \frac{15}{112})$ (ii) $(\frac{1}{112}, \frac{13}{112})$ (iii) $(\frac{3}{112}, \frac{15}{112})$

(iv) $(\frac{1}{112}, \frac{3}{22})$ (v) $(\frac{1}{114}, \frac{15}{112})$

9. Solve the following pair of equations :

$$-\frac{13}{(4x+y)} + \frac{5}{(4x-y)} = 71$$

$$-\frac{10}{(4x+y)} + \frac{2}{(4x-y)} = 38$$

- (i) $(\frac{-7}{144}, \frac{-11}{34})$ (ii) $(\frac{-7}{144}, \frac{-13}{36})$ (iii) $(\frac{-7}{146}, \frac{-11}{36})$
 (iv) $(\frac{-7}{144}, \frac{-11}{36})$ (v) $(\frac{-5}{144}, \frac{-11}{36})$
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Solve the following pair of equations :

10.
$$-\frac{4}{(x+9)} + \frac{8}{(y+2)} = (-32)$$

$$\frac{6}{(x+9)} + \frac{13}{(y+2)} = (-2)$$

- (i) $(\frac{-35}{4}, \frac{-5}{2})$ (ii) $(2, \frac{-5}{2})$ (iii) $(\frac{-35}{4}, -3)$
 (iv) $(\frac{-35}{4}, -1)$ (v) $(1, \frac{-5}{2})$
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Solve the following pair of equations :

11. $(-4x - y) = 23xy$

$$(10x + 7y) = (-35xy)$$

- (i) $(\frac{1}{7}, \frac{-1}{7})$ (ii) $(\frac{3}{5}, \frac{-1}{7})$ (iii) $(\frac{1}{5}, \frac{-1}{9})$
 (iv) $(\frac{1}{5}, \frac{1}{7})$ (v) $(\frac{1}{5}, \frac{-1}{7})$
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Solve the following pair of equations :

12.
$$\frac{(-x - 6y)}{xy} = -15$$

$$\frac{(-4x - 2y)}{xy} = -16$$

- (i) $(\frac{1}{2}, \frac{-1}{3})$ (ii) $(\frac{3}{2}, \frac{1}{3})$ (iii) $(\frac{1}{2}, 1)$
 (iv) $(\frac{1}{4}, \frac{1}{3})$ (v) $(\frac{1}{2}, \frac{1}{3})$
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Solve the following pair of equations :

13.
$$\frac{5}{\sqrt{x}} + \frac{2}{\sqrt{y}} = 32$$

$$\frac{6}{\sqrt{x}} + \frac{14}{\sqrt{y}} = -8$$

(i) $(\overline{64}, \overline{14})$ (ii) $(\overline{66}, \overline{16})$ (iii) $(\overline{64}, \overline{16})$

(iv) $(\frac{1}{64}, \frac{1}{16})$ (v) $(\frac{1}{64}, (-\frac{1}{16}))$

Assignment Key

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