



1. Solve
$$\begin{aligned} (-13x + y - 17) &= 0 \\ (-12x - 5y + 8) &= 0 \end{aligned}$$

- (i) $(-1, 4)$ (ii) $(2, 4)$ (iii) $(-1, 3)$ (iv) $(-1, 2)$ (v) $(0, 4)$

2. Solve
$$\begin{aligned} (-2x + 3y + 1) &= 0 \\ (-x + 4y + 4) &= 0 \end{aligned}$$

- (i) $((\frac{-8}{5}), (\frac{-7}{5}))$ (ii) $((\frac{-6}{5}), (\frac{-9}{5}))$ (iii) $((\frac{-6}{5}), (\frac{-5}{3}))$ (iv) $((\frac{-10}{7}), (\frac{-5}{3}))$ (v) $((\frac{-10}{7}), (\frac{-7}{5}))$

3. Solve
$$\begin{aligned} (-3x - 4y + 2) &= 1 \\ (2x + y - 4) &= 1 \end{aligned}$$

- (i) $(\frac{21}{5}, -3)$ (ii) $(\frac{19}{5}, (\frac{-13}{5}))$ (iii) $(\frac{25}{7}, (\frac{-13}{5}))$ (iv) $(\frac{25}{7}, -3)$

4. Solve
$$\begin{aligned} (x - y - 4) &= (-5x + 5y + 3) \\ (-5x - y + 1) &= (4x + 4y + 5) \end{aligned}$$

- (i) $(\frac{13}{84}, (\frac{-31}{28}))$ (ii) $(\frac{11}{86}, (\frac{-27}{26}))$ (iii) $(\frac{11}{84}, (\frac{-29}{28}))$ (iv) $(\frac{13}{84}, (\frac{-27}{26}))$ (v) $(\frac{11}{86}, (\frac{-29}{28}))$

Solve the following pair of equations :

5.
$$\begin{aligned} \frac{9}{x} - \frac{10}{y} &= 33 \end{aligned}$$

$$\frac{12}{x} + \frac{2}{y} = 90$$

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

Solve the following pair of equations :

6.
$$\begin{aligned} 4x + \frac{8}{y} &= 64 \end{aligned}$$

$$5x + \frac{4}{y} = 56$$

- (i) $(9, \frac{1}{4})$ (ii) $(8, \frac{1}{4})$ (iii) $(8, \frac{1}{2})$ (iv) $(8, (\frac{-1}{4}))$ (v) $(11, \frac{1}{4})$

Solve the following pair of equations :

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7. $\frac{10}{x} - 13y = 15$

$\frac{4}{x} - 3y = (-5)$

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

Solve the following pair of equations :

8. $-\frac{7}{(x+y)} + \frac{16}{(x-y)} = (-24)$

$\frac{5}{(x+y)} - \frac{1}{(x-y)} = 38$

(i) $(\frac{5}{16}, (\frac{-3}{14}))$ (ii) $(\frac{5}{16}, (\frac{-5}{16}))$ (iii) $(\frac{7}{16}, (\frac{-3}{16}))$ (iv) $(\frac{5}{16}, (\frac{-3}{16}))$ (v) $(\frac{5}{18}, (\frac{-3}{16}))$

Solve the following pair of equations :

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

$-\frac{3}{(x+y)} - \frac{5}{(x-y)} = 9$

(i) $(\frac{1}{4}, \frac{5}{12})$ (ii) $(\frac{1}{12}, \frac{5}{12})$ (iii) $(\frac{1}{14}, \frac{5}{12})$ (iv) $(\frac{1}{12}, \frac{1}{2})$ (v) $(\frac{1}{12}, \frac{1}{4})$

Solve the following pair of equations :

10. $\frac{11}{(x-5)} + \frac{7}{(y-3)} = 25$

$\frac{7}{(x-5)} + \frac{17}{(y-3)} = (-97)$

(i) $(\frac{41}{8}, -2)$ (ii) $(\frac{41}{8}, -1)$ (iii) $(3, \frac{26}{9})$ (iv) $(1, \frac{26}{9})$ (v) $(\frac{41}{8}, \frac{26}{9})$

Solve the following pair of equations :

11. $(-2x-3y)=(-9xy)$

$$(-3x-15y)=18xy$$

(i) $((\frac{-1}{3}), \frac{1}{7})$ (ii) $(-1, \frac{1}{9})$ (iii) $((\frac{-1}{3}), (\frac{-1}{9}))$ (iv) $((\frac{-1}{3}), \frac{1}{9})$

Solve the following pair of equations :

12. $\frac{(11x-11y)}{xy}=-77$

$$\frac{(10x-7y)}{xy}=-43$$

(i) $(\frac{1}{9}, (\frac{-1}{2}))$ (ii) $(\frac{1}{9}, \frac{1}{2})$ (iii) $(\frac{1}{9}, 1)$ (iv) $(\frac{1}{11}, \frac{1}{2})$ (v) $(\frac{1}{3}, \frac{1}{2})$

Assignment Key

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

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