



Solve the following pair of equations :

$$\begin{array}{r} 6 \quad 2 \\ - - + - = 58 \\ x \quad y \end{array}$$

$$\begin{array}{r} 3 \quad 13 \\ - - - - = (-83) \\ x \quad y \end{array}$$

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

Solve the following pair of equations :

$$\begin{array}{r} 2 \\ - 5x - - = (-9) \\ \quad \quad \quad y \end{array}$$

$$\begin{array}{r} 10 \\ - 15x - - = (-55) \\ \quad \quad \quad y \end{array}$$

- (i) $(-1, \frac{1}{7})$ (ii) $(-1, (\frac{-1}{7}))$ (iii) $(0, \frac{1}{7})$ (iv) $(-1, \frac{1}{5})$ (v) $(2, \frac{1}{7})$

Solve the following pair of equations :

$$\begin{array}{r} 1 \\ - - 3y = (-14) \\ x \end{array}$$

$$\begin{array}{r} 10 \\ - - + 4y = (-16) \\ x \end{array}$$

- (i) $(\frac{3}{4}, 6)$ (ii) $(\frac{1}{4}, 6)$ (iii) $(\frac{1}{6}, 6)$ (iv) $(\frac{1}{4}, 4)$ (v) $(\frac{1}{4}, 5)$

Solve the following pair of equations :

4.
$$-\frac{2}{(x+y)} + \frac{16}{(x-y)} = 110$$

$$-\frac{7}{(x+y)} + \frac{1}{(x-y)} = (-55)$$

- (i) $(\frac{17}{144}, (\frac{-1}{142}))$ (ii) $(\frac{17}{144}, (\frac{-1}{48}))$ (iii) $(\frac{17}{144}, (\frac{-1}{144}))$ (iv) $(\frac{17}{146}, (\frac{-1}{144}))$ (v) $(\frac{19}{144}, (\frac{-1}{144}))$

Solve the following pair of equations :

5.
$$-\frac{3}{(3x+y)} + \frac{6}{(3x-y)} = (-9)$$

$$-\frac{6}{(3x+y)} + \frac{2}{(3x-y)} = (-48)$$

- (i) $(\frac{2}{27}, (\frac{-1}{7}))$ (ii) $(\frac{2}{29}, (\frac{-1}{9}))$ (iii) $(\frac{4}{27}, (\frac{-1}{9}))$ (iv) $(\frac{2}{27}, (\frac{-1}{3}))$ (v) $(\frac{2}{27}, (\frac{-1}{9}))$

Solve the following pair of equations :

6.
$$\frac{3}{(x-5)} - \frac{2}{(y+7)} = 17$$

$$\frac{5}{(x-5)} - \frac{3}{(y+7)} = 27$$

- (i) $(1, (\frac{-29}{4}))$ (ii) $(3, (\frac{-29}{4}))$ (iii) $(\frac{16}{3}, (\frac{-29}{4}))$ (iv) $(\frac{16}{3}, -1)$ (v) $(\frac{16}{3}, -2)$

Solve the following pair of equations :

7. $(4x-10y)=(-28xy)$

$$(-5x-3y)=(-27xy)$$

- (i) $(\frac{1}{4}, 1)$ (ii) $(\frac{1}{6}, \frac{1}{3})$ (iii) $(\frac{3}{4}, \frac{1}{3})$ (iv) $(\frac{1}{4}, (\frac{-1}{3}))$ (v) $(\frac{1}{4}, \frac{1}{3})$

Solve the following pair of equations :

8.
$$\frac{(-9x+11y)}{xy} = 59$$

$$\frac{(-2x+3y)}{xy} = 12$$

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

Solve the following pair of equations :

9.

$$-\frac{8}{\sqrt{x}} - \frac{3}{\sqrt{y}} = 51$$

$$\frac{1}{\sqrt{x}} - \frac{1}{\sqrt{y}} = -5$$

- (i) $(\frac{1}{38}, 1)$ (ii) $(\frac{1}{36}, -2)$ (iii) $(\frac{1}{36}, 1)$ (iv) $(\frac{1}{36}, 0)$ (v) $(\frac{1}{12}, 1)$

Solve the following pair of equations :

10.

$$-\frac{1}{x} + \frac{9}{y} = (-43)$$

$$\frac{11}{x} + \frac{2}{y} = 69$$

- (i) $(\frac{1}{7}, \frac{1}{4})$ (ii) $(\frac{1}{9}, (\frac{-1}{4}))$ (iii) $(\frac{3}{7}, (\frac{-1}{4}))$ (iv) $(\frac{1}{7}, (\frac{-1}{4}))$ (v) $(\frac{1}{7}, (\frac{-1}{6}))$

Solve the following pair of equations :

11.

$$14x - \frac{15}{y} = (-23)$$

$$6x - \frac{2}{y} = (-32)$$

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

Solve the following pair of equations :

12.

$$\frac{12}{x} - 5y = 57$$

$$\frac{2}{x} - 2y = 20$$

- (i) $(\frac{1}{1}, -9)$ (ii) $(2, -9)$ (iii) $(\frac{1}{1}, -12)$ (iv) $(4, -9)$ (v) $(\frac{1}{1}, -10)$

Solve the following pair of equations :

$$13. \frac{5}{(x+y)} - \frac{3}{(x-y)} = (-1)$$

$$\frac{1}{(x+y)} - \frac{2}{(x-y)} = 11$$

- (i) $((-\frac{13}{80}), (-\frac{1}{16}))$ (ii) $((-\frac{13}{82}), (-\frac{3}{80}))$ (iii) $((-\frac{11}{80}), (-\frac{3}{80}))$ (iv) $((-\frac{13}{80}), (-\frac{1}{26}))$ (v) $((-\frac{13}{80}), (-\frac{3}{80}))$

Solve the following pair of equations :

$$14. \frac{12}{(x+y)} - \frac{9}{(x-y)} = 12$$

$$- \frac{4}{(x+y)} - \frac{14}{(x-y)} = (-84)$$

- (i) $((-\frac{1}{112}), (-\frac{17}{112}))$ (ii) $((-\frac{1}{114}), (-\frac{15}{112}))$ (iii) $((\frac{1}{112}), (-\frac{15}{112}))$ (iv) $((-\frac{1}{112}), (-\frac{3}{22}))$ (v) $((-\frac{1}{112}), (-\frac{15}{112}))$

Solve the following pair of equations :

$$15. \frac{9}{(x-5)} + \frac{8}{(y-8)} = (-6)$$

$$\frac{3}{(x-5)} + \frac{15}{(y-8)} = 108$$

- (i) $(2, \frac{49}{6})$ (ii) $(\frac{31}{6}, \frac{49}{6})$ (iii) $(1, \frac{49}{6})$ (iv) $(\frac{31}{6}, -1)$ (v) $(\frac{31}{6}, -2)$

Solve the following pair of equations :

$$16. (-8x+14y) = 70xy$$

$$(-5x+8y) = 43xy$$

- (i) $(4, (\frac{-1}{7}))$ (ii) $(\frac{1}{1}, \frac{1}{7})$ (iii) $(2, (\frac{-1}{7}))$ (iv) $(\frac{1}{1}, (\frac{-1}{9}))$ (v) $(\frac{1}{1}, (\frac{-1}{7}))$

Solve the following pair of equations :

$$17. \frac{(-4x+16y)}{xy} = -44$$

$$\frac{(-9x+13y)}{xy} = 16$$

- (i) $((-\frac{1}{5}), (\frac{1}{9}))$ (ii) $((-\frac{1}{3}), (\frac{-1}{9}))$ (iii) $((-\frac{1}{5}), (\frac{-1}{11}))$ (iv) $((-\frac{1}{5}), (\frac{-1}{9}))$ (v) $((-\frac{3}{5}), (\frac{-1}{9}))$

Solve the following pair of equations :

$$18. \quad \frac{7}{\sqrt{x}} + \frac{9}{\sqrt{y}} = -25$$

$$\frac{12}{\sqrt{x}} + \frac{11}{\sqrt{y}} = -3$$

- (i) $(\frac{1}{66}, \frac{1}{81})$ (ii) $(\frac{1}{64}, \frac{1}{81})$ (iii) $(\frac{1}{64}, (\frac{-1}{81}))$ (iv) $(\frac{3}{64}, \frac{1}{81})$ (v) $(\frac{1}{64}, \frac{1}{79})$

Assignment Key

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