



1. Solve 
$$\begin{aligned}x - 15y - 128 &= 0 \\x - 10y - 83 &= 0\end{aligned}$$

- (i) (-6, -9) (ii) (-7, -9) (iii) (-7, -11) (iv) (-7, -10) (v) (-5, -9)

2. Solve 
$$\begin{aligned}-3x + 4y - 5 &= 0 \\4x - 5y - 2 &= 0\end{aligned}$$

- (i) (33, 26) (ii) (34, 25) (iii) (34, 26) (iv) (36, 25) (v) (36, 23)

3. Solve 
$$\begin{aligned}-5x - 3y - 5 &= 2 \\5x - 2y + 1 &= -4\end{aligned}$$

- (i)  $(-\frac{31}{27}, -\frac{2}{3})$  (ii)  $((-\frac{27}{25}), -\frac{2}{3})$  (iii)  $((-\frac{27}{25}), -\frac{4}{5})$  (iv)  $((-\frac{29}{25}), -\frac{2}{5})$  (v)  $((-\frac{31}{27}), -\frac{2}{5})$

4. Solve 
$$\begin{aligned}3x + 3y + 3 &= -5x - y + 2 \\2x - 5y - 4 &= -3x - 4y\end{aligned}$$

- (i)  $(\frac{17}{28}, -\frac{39}{28})$  (ii)  $(\frac{1}{2}, -\frac{35}{26})$  (iii)  $(\frac{17}{28}, -\frac{35}{26})$  (iv)  $(\frac{1}{2}, -\frac{37}{28})$  (v)  $(\frac{15}{28}, -\frac{37}{28})$

Solve the following pair of equations :

5. 
$$\begin{array}{r} 4 \quad 10 \\ - - - = 52 \\ x \quad y \end{array}$$

$$\begin{array}{r} 5 \quad 1 \\ - + - = (-43) \\ x \quad y \end{array}$$

- (i)  $((-\frac{1}{7}), -\frac{1}{8})$  (ii)  $((-\frac{1}{7}), \frac{1}{8})$  (iii)  $((-\frac{1}{7}), -\frac{1}{10})$  (iv)  $((-\frac{1}{5}), -\frac{1}{8})$  (v)  $((-\frac{3}{7}), -\frac{1}{8})$

Solve the following pair of equations :

6. 
$$\begin{array}{r} 7 \\ 10x - - = 26 \\ y \end{array}$$

$$\begin{array}{r} 6 \\ 4x + - = (-60) \\ y \end{array}$$

- (i)  $(-1, -\frac{1}{8})$  (ii)  $(-3, -\frac{1}{8})$  (iii)  $(-3, -\frac{1}{10})$  (iv)  $(-3, \frac{1}{8})$  (v)  $(-2, -\frac{1}{8})$

Solve the following pair of equations :

15  
— + y = 114  
x

12  
— + 8y = 48  
x

- (i)  $(\frac{3}{8}, -6)$  (ii)  $(\frac{1}{10}, -6)$  (iii)  $(\frac{1}{8}, -7)$  (iv)  $(\frac{1}{8}, -8)$  (v)  $(\frac{1}{8}, -6)$

Solve the following pair of equations :

3 2  
— — = 19  
(x+y) (x-y)

8 2  
— — + — = (-54)  
(x+y) (x-y)

- (i)  $(\frac{4}{7}, (\frac{-3}{5}))$  (ii)  $(\frac{4}{7}, (\frac{-3}{7}))$  (iii)  $(\frac{6}{7}, (\frac{-3}{7}))$  (iv)  $(\frac{4}{9}, (\frac{-3}{7}))$  (v)  $(\frac{4}{7}, (\frac{-5}{7}))$

Solve the following pair of equations :

2 16  
— — + — = 130  
(4x+y) (4x-y)

12 15  
— — + — = 51  
(4x+y) (4x-y)

- (i)  $(\frac{2}{63}, \frac{1}{61})$  (ii)  $(\frac{2}{65}, \frac{1}{63})$  (iii)  $(\frac{2}{63}, \frac{1}{63})$  (iv)  $(\frac{4}{63}, \frac{1}{63})$  (v)  $(\frac{2}{63}, (\frac{-1}{63}))$

Solve the following pair of equations :

12 2  
— — - — = 72  
(x+3) (y-8)

15 6  
— — - — = 69  
(x+3) (y-8)

- (i)  $((\frac{-22}{7}), \frac{49}{6})$  (ii)  $((\frac{-22}{7}), -3)$  (iii)  $(1, \frac{49}{6})$  (iv)  $(2, \frac{49}{6})$  (v)  $((\frac{-22}{7}), -1)$

Solve the following pair of equations :

11.  $(-3x - 6y) = (-30xy)$

$(15x + 3y) = (-12xy)$

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

Solve the following pair of equations :

12.  $\frac{(14x + 6y)}{xy} = 14$

$\frac{(5x + 3y)}{xy} = 11$

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

## Assignment Key

1) (ii)

2) (i)

3) (iv)

4) (v)

5) (i)

6) (ii)

7) (v)

8) (ii)

9) (iii)

10) (i)

11) (iv)

12) (iv)