

1. Solve the equations:

a) $y = 1$
 $x = y + 1$ $x = 2$

b) $y = 1$
 $x = y + 5$ $x = 6$

c) $y = 2$
 $x = y - 1$ $x = 1$

d) $y = 4$
 $x = y - 2$ $x = 2$

e) $y = 2$
 $x = 4y - 1$ $x = 7$

f) $y = 4$
 $x = 5y - 2$ $x = 18$

g) $y = 8$
 $x = y + 1$ $x = 9$

h) $y = 5$
 $x = y + 5$ $x = 10$

i) $y = 5$
 $x = y - 1$ $x = 4$

j) $y = 9$
 $x = y - 2$ $x = 7$

k) $y = 4$
 $x = 4y - 1$ $x = 15$

l) $y = 9$
 $x = 5y - 2$ $x = 43$

2. Solve the equations:

$$\begin{aligned} \text{a) } y &= 1 \\ x &= -y + 1 \quad x = 0 \end{aligned}$$

$$\begin{aligned} \text{b) } y &= 1 \\ x &= -y + 5 \quad x = 4 \end{aligned}$$

$$\begin{aligned} \text{c) } y &= 2 \\ x &= -y - 1 \quad x = -3 \end{aligned}$$

$$\begin{aligned} \text{d) } y &= 4 \\ x &= -y - 2 \quad x = -6 \end{aligned}$$

$$\begin{aligned} \text{e) } y &= -2 \\ x &= 4y - 1 \quad x = -9 \end{aligned}$$

$$\begin{aligned} \text{f) } y &= -4 \\ x &= 5y - 2 \quad x = -22 \end{aligned}$$

$$\begin{aligned} \text{g) } y &= 8 \\ x &= -y + 1 \quad x = -7 \end{aligned}$$

$$\begin{aligned} \text{h) } y &= 5 \\ x &= -y + 5 \quad x = 0 \end{aligned}$$

$$\begin{aligned} \text{i) } y &= 5 \\ x &= -y - 1 \quad x = -6 \end{aligned}$$

$$\begin{aligned} \text{j) } y &= 9 \\ x &= -y - 2 \quad x = -11 \end{aligned}$$

$$\begin{aligned} \text{k) } y &= -4 \\ x &= 4y - 1 \quad x = -17 \end{aligned}$$

$$\begin{aligned} \text{l) } y &= -9 \\ x &= 5y - 2 \quad x = -47 \end{aligned}$$

3. Solve the equations:

a) $x + y = 11$
 $x + 2y = 12$ $x = 10, y = 1$

b) $2x + y = 11$
 $x + y = 9$ $x = 2, y = 7$

c) $2x + y = 11$
 $2x + 2y = 12$ $x = 5, y = 1$

d) $2x + 4y = 12$
 $x + 4y = 10$ $x = 2, y = 2$

e) $x + 3y = 11$
 $3x + 3y = 15$ $x = 2, y = 3$

f) $2x + 4y = 12$
 $2x + 7y = 21$ $x = 0, y = 3$

g) $7x + 3y = 33$
 $5x + 3y = 27$ $x = 3, y = 4$

h) $2x + 5y = 19$
 $2x + 3y = 13$ $x = 2, y = 3$

i) $12x + y = 25$
 $12x + 12y = 36$ $x = 2, y = 1$

j) $20x + 4y = 64$
 $10x + 4y = 34$ $x = 3, y = 1$

k) $7x + 3y = 85$
 $3x + 3y = 45$ $x = 10, y = 5$

l) $9x + 4y = 51$
 $9x + 6y = 63$ $x = 3, y = 6$

4. Solve the equations:

a) $3x + y = 14$
 $2x + 2y = 12$ $x = 4, y = 2$

b) $2x + 5y = 12$
 $x + 7y = 15$ $x = 1, y = 2$

c) $3x + 7y = 22$
 $x + 2y = 7$ $x = 5, y = 1$

d) $5x + 4y = 18$
 $x + 11y = 24$ $x = 2, y = 2$

e) $7x + 3y = 23$
 $3x + 6y = 24$ $x = 2, y = 3$

f) $8x + 4y = 12$
 $2x + 7y = 21$ $x = 0, y = 3$

g) $7x + 3y = 33$
 $5x + 6y = 39$ $x = 3, y = 4$

h) $4x + 5y = 23$
 $2x + 3y = 13$ $x = 2, y = 3$

i) $12x + 4y = 28$
 $10x + 12y = 32$ $x = 2, y = 1$

j) $20x + 3y = 63$
 $10x + 4y = 34$ $x = 3, y = 1$

k) $8x + 13y = 145$
 $2x + 3y = 35$ $x = 10, y = 5$

l) $3x + 4y = 33$
 $9x + 6y = 63$ $x = 3, y = 6$

5. Solve the equations:

a) $7x + 3y = 23$
 $3x + 2y = 12 \quad x = 2, y = 3$

b) $7x + 2y = 29$
 $5x + 3y = 27 \quad x = 3, y = 4$

c) $4x + 5y = 23$
 $7x + 3y = 23 \quad x = 2, y = 3$

d) $6x + 13y = 125$
 $4x + 3y = 55 \quad x = 10, y = 5$

e) $13x + 4y = 63$
 $9x + 6y = 63 \quad x = 3, y = 6$

f) $3x + 7y = 22$
 $5x + 2y = 27 \quad x = 5, y = 1$

g) $3x + 7y = 26$
 $2x + 2y = 12 \quad x = 4, y = 2$

h) $2x + 5y = 12$
 $3x + 7y = 17 \quad x = 1, y = 2$

i) $12x + 5y = 29$
 $10x + 12y = 32 \quad x = 2, y = 1$

j) $17x + 3y = 54$
 $10x + 4y = 34 \quad x = 3, y = 1$

k) $5x + 4y = 18$
 $3x + 11y = 28 \quad x = 2, y = 2$

l) $8x + 4y = 12$
 $6x + 7y = 21 \quad x = 0, y = 3$

6. Solve the equations:

a) $3x - y = 10$
 $2x + 2y = 12$ $x = 4, y = 2$

b) $-2x + 5y = 8$
 $x + 7y = 15$ $x = 1, y = 2$

c) $-3x - 7y = -22$
 $x + 2y = 7$ $x = 5, y = 1$

d) $5x + 4y = 18$
 $-x - 11y = -24$ $x = 2, y = 2$

e) $-7x + 3y = -5$
 $3x - 6y = -12$ $x = 2, y = 3$

f) $8x - 4y = -12$
 $-2x + 7y = 21$ $x = 0, y = 3$

g) $7x - 3y = 9$
 $5x + 6y = 39$ $x = 3, y = 4$

h) $4x + 5y = 23$
 $-2x + 3y = 5$ $x = 2, y = 3$

i) $-12x - 4y = -28$
 $10x + 12y = 32$ $x = 2, y = 1$

j) $20x + 3y = 63$
 $-10x - 4y = -34$ $x = 3, y = 1$

k) $-8x + 13y = -15$
 $2x - 3y = 5$ $x = 10, y = 5$

l) $3x - 4y = -15$
 $-9x + 6y = 9$ $x = 3, y = 6$

7. Solve the equations:

a) $7x - 3y = 5$
 $3x + 2y = 12 \quad x = 2, y = 3$

b) $7x + 2y = 29$
 $5x - 3y = 3 \quad x = 3, y = 4$

c) $-4x - 5y = -23$
 $7x + 3y = 23 \quad x = 2, y = 3$

d) $6x + 13y = 125$
 $-4x - 3y = -55 \quad x = 10, y = 5$

e) $-13x + 4y = -15$
 $9x - 6y = -9 \quad x = 3, y = 6$

f) $3x - 7y = 8$
 $-5x + 2y = -23 \quad x = 5, y = 1$

g) $-3x + 7y = 2$
 $2x - 2y = 4 \quad x = 4, y = 2$

h) $2x - 5y = -8$
 $3x + 7y = 17 \quad x = 1, y = 2$

i) $-12x - 5y = -29$
 $10x + 12y = 32 \quad x = 2, y = 1$

j) $17x + 3y = 54$
 $-10x - 4y = -34 \quad x = 3, y = 1$

k) $-5x - 4y = -18$
 $-3x + 11y = 16 \quad x = 2, y = 2$

l) $8x - 4y = -12$
 $-6x - 7y = -21 \quad x = 0, y = 3$