

Systemes Linéaires (A)

Trouvez les solutions des systemes d'équations suivants.

1. $5a - c + 6u = 20$
 $5a - 2c + 3u = 8$
 $-4c + 6u = 6$

5. $c + 4u - 2x = 4$
 $4c + u = 21$
 $-2c - 5u = 3$

2. $4a + 5c - 3y = 6$
 $2a - 5c - 3y = 18$
 $5a + 4c - y = -4$

6. $-5b + 5c - 2y = 38$
 $-4b + 3c - 3y = 16$
 $2b + 5c + 3y = 40$

3. $-2c - u - 4y = -7$
 $-4c + 4u - y = -4$
 $-5c + 2u + 6y = 33$

7. $4c - 2u + 5v = -5$
 $2c - u - 2v = -16$
 $3c - 2u + 3v = -6$

4. $-b + 5v + x = 3$
 $5b + 6v - x = -23$
 $3b + 4v + x = -17$

8. $-a - 3v + 4y = -19$
 $5a - 4v - 5y = -4$
 $-a + 3v + 4y = 17$

Systemes Linéaires (A) Solutions

Trouvez les solutions des systemes d'équations suivants.

$$\begin{aligned} 1. \quad & 5a - c + 6u = 20 \\ & 5a - 2c + 3u = 8 \\ & -4c + 6u = 6 \end{aligned}$$

$$a = 1, c = 3, u = 3$$

$$\begin{aligned} 5. \quad & c + 4u - 2x = 4 \\ & 4c + u = 21 \\ & -2c - 5u = 3 \end{aligned}$$

$$c = 6, u = -3, x = -5$$

$$\begin{aligned} 2. \quad & 4a + 5c - 3y = 6 \\ & 2a - 5c - 3y = 18 \\ & 5a + 4c - y = -4 \end{aligned}$$

$$a = -1, c = -1, y = -5$$

$$\begin{aligned} 6. \quad & -5b + 5c - 2y = 38 \\ & -4b + 3c - 3y = 16 \\ & 2b + 5c + 3y = 40 \end{aligned}$$

$$b = -4, c = 6, y = 6$$

$$\begin{aligned} 3. \quad & -2c - u - 4y = -7 \\ & -4c + 4u - y = -4 \\ & -5c + 2u + 6y = 33 \end{aligned}$$

$$c = -3, u = -3, y = 4$$

$$\begin{aligned} 7. \quad & 4c - 2u + 5v = -5 \\ & 2c - u - 2v = -16 \\ & 3c - 2u + 3v = -6 \end{aligned}$$

$$c = -5, u = 0, v = 3$$

$$\begin{aligned} 4. \quad & -b + 5v + x = 3 \\ & 5b + 6v - x = -23 \\ & 3b + 4v + x = -17 \end{aligned}$$

$$b = -5, v = 0, x = -2$$

$$\begin{aligned} 8. \quad & -a - 3v + 4y = -19 \\ & 5a - 4v - 5y = -4 \\ & -a + 3v + 4y = 17 \end{aligned}$$

$$a = 5, v = 6, y = 1$$