

## FA201 Cherche la bonne!

Dans chaque groupe de trois équations, détermine celle qui est résolue correctement.

a)

$$\begin{array}{l|l} 4x - 40 = 160 & +40 \\ 4x = 160 & :4 \\ x = 40 & \\ S = \{40\} & \end{array}$$

$$\begin{array}{l|l} 4x - 40 = 160 & -40 \\ 4x = 120 & :4 \\ x = 30 & \\ S = \{30\} & \end{array}$$

$$\begin{array}{l|l} 4x - 40 = 160 & +40 \\ 4x = 200 & :4 \\ x = 50 & \\ S = \{50\} & \end{array}$$

b)

$$\begin{array}{l|l} 3(x - 15) = 75 & +15 \\ 3x = 90 & :3 \\ x = 30 & \\ S = \{30\} & \end{array}$$

$$\begin{array}{l|l} 3(x - 15) = 75 & \\ 3x - 45 = 75 & +45 \\ 3x = 120 & :3 \\ x = 40 & \\ S = \{40\} & \end{array}$$

$$\begin{array}{l|l} 3(x - 15) = 75 & \\ 3x - 15 = 75 & +15 \\ 3x = 90 & :3 \\ x = 30 & \\ S = \{30\} & \end{array}$$

c)

$$\begin{array}{l|l} 25 - 0,5x = 75 & -25 \\ 0,5x = 50 & \cdot 2 \\ x = 100 & \\ S = \{100\} & \end{array}$$

$$\begin{array}{l|l} 25 - 0,5x = 75 & +0,5x \\ 25 = 75 + 0,5x & -75 \\ -50 = 0,5x & \cdot 2 \\ -100 = x & \\ S = \{-100\} & \end{array}$$

$$\begin{array}{l|l} 25 - 0,5x = 75 & -25 \\ -0,5x = 50 & \cdot 10 \\ -5x = 500 & :500 \\ x = 1 & \\ S = \{1\} & \end{array}$$

d)

$$\begin{array}{l|l} \frac{3}{2}x + \frac{1}{4} = x + 3 & \\ \frac{6}{4}x + \frac{1}{4} = x + 3 & \cdot 4 \\ 6x + 1 = 4x + 12 & -4x \\ 2x + 1 = 12 & -1 \\ 2x = 11 & :2 \\ x = 5,5 & \\ S = \{5,5\} & \end{array}$$

$$\begin{array}{l|l} \frac{3}{2}x + \frac{1}{4} = x + 3 & \\ \frac{3}{4}x + \frac{1}{4} = x + 3 & \cdot 4 \\ 3x + 1 = 4x + 12 & -3x \\ 1 = x + 12 & -12 \\ -11 = x & \\ S = \{-11\} & \end{array}$$

$$\begin{array}{l|l} \frac{3}{2}x + \frac{1}{4} = x + 3 & \cdot 4 \\ 6x + 1 = 4x + 12 & -4x \\ 2x + 1 = 12 & -1 \\ 2x = 11 & :2 \\ x = 5,5 & \\ S = \{5,5\} & \end{array}$$