

Find all solutions to the linear systems

$$1. \begin{cases} 4x + 3y = 2 \\ 7x + 5y = 3 \end{cases}$$

$$2. \begin{cases} 2x + 4y = 3 \\ 3x + 6y = 2 \end{cases}$$

$$3. \begin{cases} x + 2y + 3z = 8 \\ x + 3y + 3z = 10 \\ x + 2y + 4z = 9 \end{cases}$$

$$4. \begin{cases} x + 2y + 3z = 1 \\ 3x + 2y + z = 1 \\ 7x + 2y - 3z = 1 \end{cases}$$

Find all solutions of the linear systems.

Represent your solutions graphically, as intersections of lines in the x - y -plane.

$$5. \begin{cases} x - 2y = 3 \\ 2x - 4y = 6 \end{cases}$$

Find all solutions of the linear systems

$$6. \begin{cases} x + 2y = a \\ 3x + 5y = b \end{cases}$$

$$7. \begin{cases} x + 2y + 3z = a \\ x + 3y + 8z = b \\ x + 2y + 2z = c \end{cases}$$