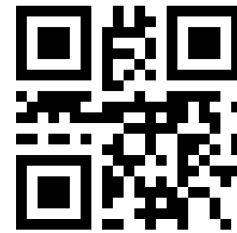


S₁

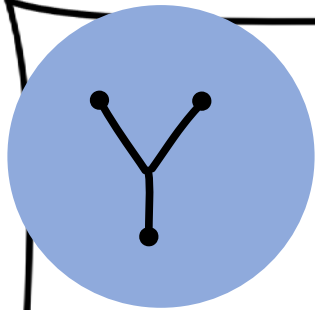
Solve by graphing:

1.
$$\begin{cases} 3x + y = -7 \\ x - 3y = -9 \end{cases}$$



2.
$$\begin{cases} x - 2y = -2 \\ 9x - 3y = 12 \end{cases}$$





Solve by substitution:

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



$$4. \begin{cases} 2x + y = 9 \\ x - 3y = 21 \end{cases}$$



S₂

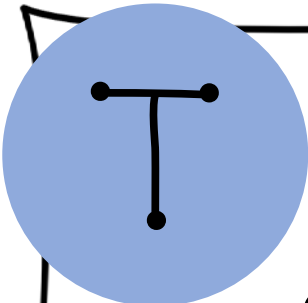
Solve by elimination:

5.
$$\begin{cases} x - 2y = 9 \\ 3x + y = 13 \end{cases}$$



6.
$$\begin{cases} 3x - 2y = 4 \\ 6x - 4y = 8 \end{cases}$$





T

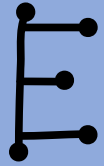
Solve by elimination:

$$7. \begin{cases} 2x + 3y = 2 \\ 2x - 9y = -8 \end{cases}$$



$$8. \begin{cases} 3x - 12y = 9 \\ x - 4y = -8 \end{cases}$$

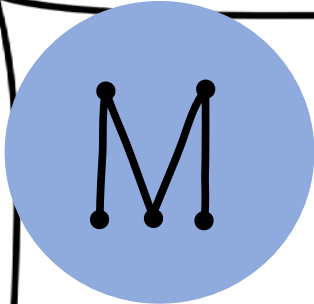




Solve for the variables:

$$9. \begin{cases} 3x - y + 2z = 15 \\ 2x + y + 3z = 5 \\ 2x - 2y + 3z = 17 \end{cases}$$





M

Solve by graphing:

10.
$$\begin{cases} x - 2y < -6 \\ y < 2|x - 2| - 1 \end{cases}$$



11.
$$\begin{cases} y \leq 4 - |x - 1| \\ 2y > x - 2 \end{cases}$$



S₃

Ben flew his small airplane 660 km in 6 hours flying with the wind. He flew 350 km against the wind in 7 hours.

12. Write a system of equations to represent the flight.

13. Find the rate of the plane.

14. Find the rate of the wind.

