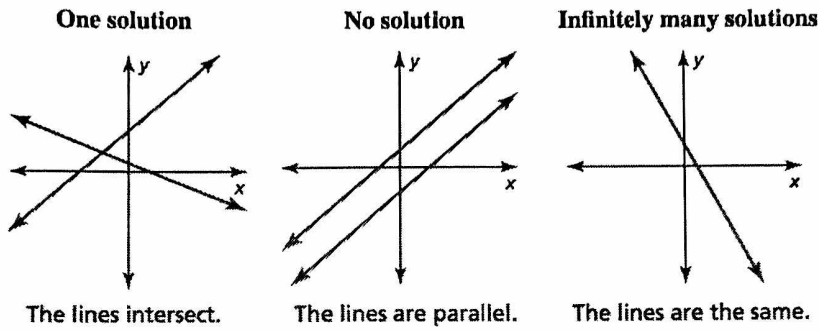


AA PREP: LINEAR RELATIONSHIPS—SOLVING SYSTEMS LECTURE

Solutions of Systems of Linear Equations:

A system of linear equations can have one solution, no solution, or infinitely many solutions.



Solving Systems of Linear Equations:

EX 1: Solve the system using three methods: graphing, substitution, and elimination.

a) Graphing

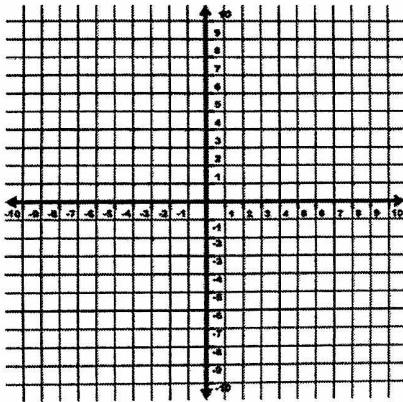
$$\begin{cases} x + y = -2 \\ -8x + 2y = -14 \end{cases}$$

b) Substitution

$$\begin{cases} x + y = -2 \\ -8x + 2y = -14 \end{cases}$$

c) Elimination

$$\begin{cases} x + y = -2 \\ -8x + 2y = -14 \end{cases}$$



EX 2: Graph each system, then solve the system using substitution or elimination.

a)
$$\begin{cases} 3x - 4y = -12 \\ y = \frac{3}{4}x - 2 \end{cases}$$

b)
$$\begin{cases} 2x + y = 4 \\ 6x + 3y = 12 \end{cases}$$

