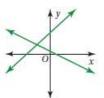
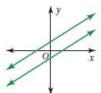


Solutions of Systems of Linear Equations

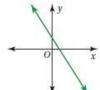
A system of linear equations can have one solution, no solution, or infinitely many solutions.



One solution



No solution



Infinitely many solutions

The lines intersect.

The lines are parallel.

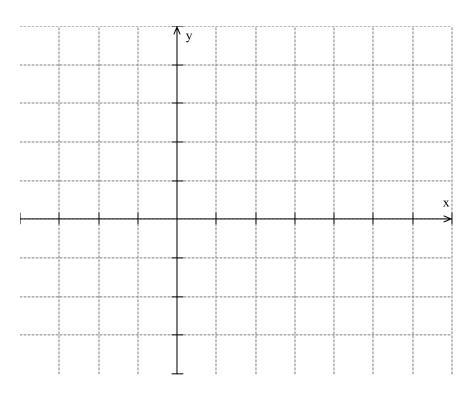
The lines are the same.
• same slope

- · different slopes
- same slope
 different u interess
- · different y-intercepts · same y-intercept

Ex:) Solve the system by graphing.

$$y = 3x + 1$$

$$y = 3x - 3$$



$OVO \cdot)$	Solve the sy	vstem usin	substitution	or	elimination
O 1 O.)	Solve the S	ystem usm	z substitution	ΟI	emmation.

Notes:

$$y = 3x + 1$$

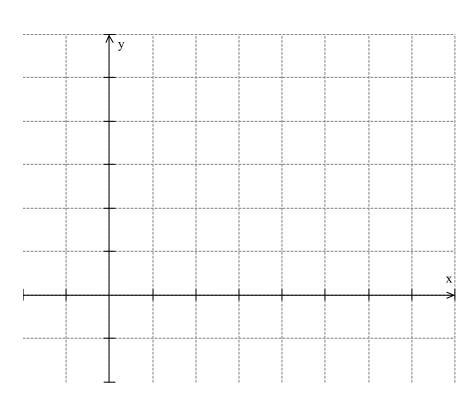
$$y = 3x - 3$$

OYO:) Solve the system by graphing.

Notes:

$$x + 2y = 6$$

$$3x + 6y = 18$$



$\neg \lor \cap \cdot)$	Salva tha s	vctom	ucina	cubetitution	or	alimination
U (U :)	Solve the s	ystem	using	substitution	Οľ	eiimination.

Notes:

$$x + 2y = 6$$
$$3x + 6y = 18$$

Solving Special Systems

	What happens with an Inconsistent System?	What happens with a Consistent, Dependent System?
Graphing		
Substitution Elimination		

Modeling Real Life

Use the VESI process to solve the system using either algebraic method.

Notes:

Ex:) You and your friend plant an urban garden. You pay \$15.00 for 6 tomato plants and 6 pepper plants. Your friend pays \$22.50 for 9 tomato plants and 9 pepper plants. How much does each plant cost?