

Part 2:	Intersecting Lines	Parallel Lines	Coincident (Same) Lines
		-2 0 2 x	$\begin{array}{c c} y \\ z \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 \\ -2 $
Number of Solutions]	None	Infinite
Slopes	difforent	same	same
Y-Intercepts	different	different	same

Part 3: Substitution
3)

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

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

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

$$\begin{cases} y = 6(-3) + 4 \\ y = -2 - 4 \\ -4x - 4x \\ -4x$$

$$\begin{array}{c} 5 \\ x = -y + 5 \\ x = 2y - 4 \\ -y + 5 = 2y - 4 \\ -y + 12 = 2y - 12 \\ -y + 12 = 10 \\ -y + 1$$

Part 5: Applications11) The sum of two numbers is 82. Their difference is 24. Write and sodescribes this situation and find the two numbers. $x = 1$ Number $x + y = 82$	plve a system of equations that $3 + \gamma = 82$
$y = 2^{-4}$ number $+ x - y = 74$ $\frac{7x}{2x} = 106$	<u>y - 53</u> y - 29
Answer: The two numbers are 29 and 53 .	
12) Two groups of students order burritos and tacos at a local restaur 4 tacos cost \$11.33. The other order of 9 burritos and 5 tacos cost \$23 equations to find the cost of one burrito and the cost of one taco. 3 $(3b + 4t = 11.33)$ 9b + 5t = 23.56 9b + 5t = 23.56	
9b + 12t = 33.99 $7t = 16.43$ $9b + 5t = 1.56$ $t = 1.45$ Answer: A burrito costs $$1.79$ and a taco costs $$1.49$	$\frac{3b}{3} = \frac{5.37}{3}$ b = 1.79
13) The length of a garden is 5 times its width. Find the length and width P = 72 w $V = 72$ $L = 12$ $V = 72$ $L = 12$ $V = 6$ $L = 12$ $V = 6$	5n 5(6)
Answer: The length of the garden is $30 ft$. and the width is	<u>6 ft.</u>