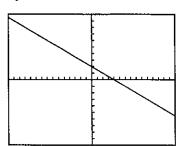
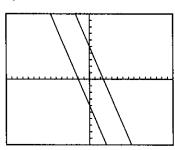
Practice

1. The graphs of the two equations in 3 different linear systems are shown.

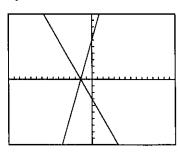
System A



System B



System C



In which linear system do the lines intersect at exactly one point?

How many solutions does the system have?

In which linear system are the lines parallel? ____

How many solutions does the system have?

In which linear system do the lines coincide?

How many solutions does the system have?

2. The slope-intercept form of each equation in a linear system is given. How many solutions does each system have?

a)
$$y = -2x + 4$$

b) y = -3x + 4

Slope: _____; y-intercept: _____

v = -2x - 1 ②

v = -2x + 4

Slope: ____; *y*-intercept: _____

Slope: _____; y-intercept: _____

Slope: _____; *y*-intercept: _____

The slopes are ______.

So, there is ______

The slopes are _____.

So, there is ______.

3. W	ithout solving, find the num	ber of solutions of	of each linear system.	
a)	2x + 2y = 6	①		
	x + y = -2	2		
	For equation ①:		For equation ②:	
	2x + 2y = 6		x + y = -2	
	-/· -/ -/		y =	
	y =		,	
	· ————	tercept is	The slope is; the <i>y</i> -intercept is	
	So, the system has	·		
b)	3x - y = 5	①		
•	-6x + 2y = -10	2		
	For equation ①:		For equation ②:	
	3x - y = 5		-6x + 2y = -10	
	3x y - 3		07 1 2y 10	
	y =		y =	
		tercept is	The slope is; the <i>y</i> -intercept is	
	-			
	So, the system has			
c)	x + y = 4	①		
	-4x + 2y = 8	2		
	For equation ①:	For equat	For equation ②:	
	x + y = 4	-4x + 2y	<i>y</i> = 8	
	y =			
	The slope is;	ز	/ =	
	the wintercent is	The slope	is;	
	the <i>y</i> -intercept is	•		
	the y-intercept is		rcept is	
	The slopes are	the <i>y-</i> inte		
		the <i>y</i> -inte 		