

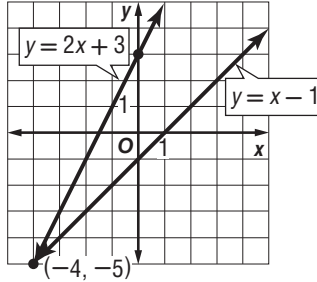
# Lesson 7 Reteach

## Solve Systems of Equations by Graphing

### Example

Solve the system  $y = 2x + 3$  and  $y = x - 1$  by graphing.

Graph each equation on the same coordinate plane.



The graphs appear to intersect at  $(-4, -5)$ .

Check this estimate by replacing  $x$  with  $-4$  and  $y$  with  $-5$ .

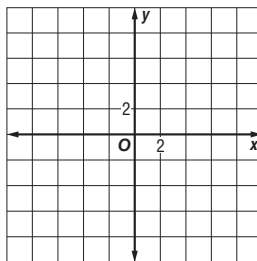
<b>Check</b>	$y = 2x + 3$	$y = x - 1$
	$-5 \stackrel{?}{=} 2(-4) + 3$	$-5 \stackrel{?}{=} -4 - 1$
	$-5 = -5 \checkmark$	$-5 = -5 \checkmark$

The solution of the system is  $(-4, -5)$ .

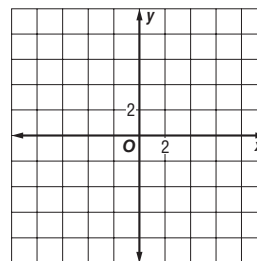
### Exercises

Solve each system of equations by graphing.

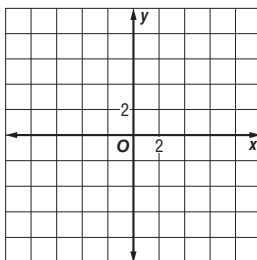
1.  $y = 2x + 5$   
 $y = -x + 8$



2.  $y = -x - 3$   
 $y = x + 1$



3.  $y = -3x + 9$   
 $y = -3x + 3$



4.  $y = -2x + 4$   
 $y = -x + 3$

