

Solving Linear Systems Graphically

Questions

NOTE: For at least three questions below, do a “left-side / right-side” check.

1. Solve each system by graphing. Check your solutions (see reverse page).

a)	b)	c)	d)
$y = x - 1$	$y = x + 3$	$y = 2x + 1$	$y = 1 - 2x$
$y = 9 - x$	$y = 1 - x$	$y = x - 2$	$y = x - 5$

2. Solve each system by graphing. Check your solutions (see reverse page).

a)	b)	c)	d)
$x - y = -5$	$5x - 2y = 10$	$3x - 2y = 12$	$2x + 3y = -12$
$x + y = 1$	$x + 2y = 2$	$x - 2y = 8$	$2x - y = -4$

3. Solve each system by graphing. Check your solutions (see reverse page).

a)	b)	c)	d)
$x - y = 4$	$x + y = 5$	$x + 2y = 2$	$x + 3y = -1$
$x + y = 2$	$x - y = -7$	$x + y = 3$	$2x + 6y + 2 = 0$
e)	f)	g)	h)
$2x + y = 12$	$2x + y = -2$	$y = 2x - 3$	$2x + y = -5$
$3x - 2y = 18$	$4x = y - 16$	$2x - y = 5$	$3x - y = -5$
i)	j)	k)	l)
$2x - y = 5$	$3x + y = -11$	$3x + 4y - 16 = 0$	$3x = y + 8$
$y = x - 3$	$y = 2x + 4$	$x - 2y - 2 = 0$	$6x - 2y - 1 = 0$
m)	n)	o)	p)
$2x + 3y = 7$	$y = 1/2x + 3$	$2x - 3y = 4$	$3x + 2y - 10 = 0$
$2x - 3y = 13$	$x = 2y - 6$	$3x - 4y = 5$	$2x - 3y + 2 = 5$

Answers

1. a) $(5, 4)$ b) $(-1, 2)$ c) $(-3, -5)$ d) $(2, -3)$
2. a) $(-2, 3)$ b) $(2, 0)$ c) $(2, -3)$ d) $(-3, -2)$
3. a) $(3, -1)$ b) $(-1, 6)$ c) $(4, -1)$ d) infinitely many solutions e) $(6, 0)$ f) $(-3, 4)$ g) no solution h) $(-2, -1)$ i) $(2, -1)$ j) $(-3, -2)$ k) $(4, 1)$ l) no solution m) $(5, -1)$ n) infinitely many solutions o) $(-1, -2)$ p) $(2, 2)$