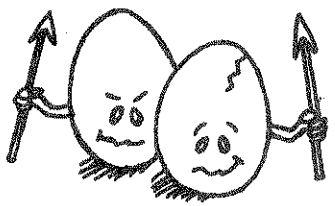
What Were the Headlines After a Mad Scientist Trained Two Eggs to Attack a Candy Store With Sharp Sticks ?

Solve each system of equations below by graphing. Cross out the box containing your answer. When you finish, print the letters from the remaining boxes in the spaces at the bottom of the page.



① $y = \frac{2}{3}x - 1$
$y = -x + 4$

② $y = -2x + 1$
$y = x - 5$

③ $y = \frac{1}{2}x - 3$
$y = \frac{3}{2}x - 1$

④ $y = 2x$
$x + y = 3$

⑤ $x + y = 0$
$3x + y = -4$

⑥ $x = 3 - 3y$
$x + 3y = -6$

⑦ $x + 2y = -4$
$4y = 3x + 12$

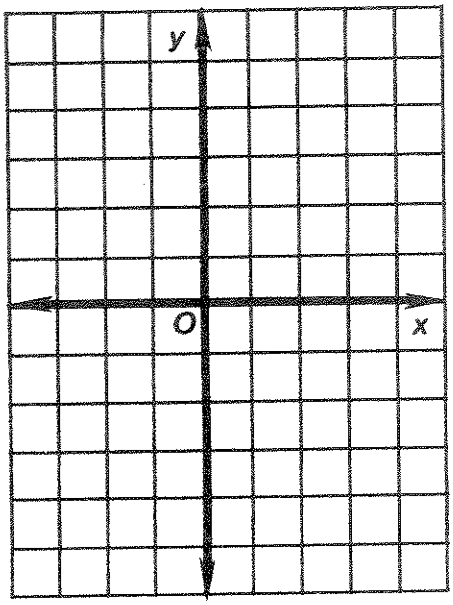
⑧ $y = -2$
$2x - 5y = 20$

⑨ $4x + 3y = -15$
$y = x + 2$

TW (−4, 0)	EG (−4, −5)	OS no solution	GS (4, 1)	WE (3, 1)	ET (−2, −4)	SP (−1, 6)	TR (−3, −1)
EA (−3, 5)	TS (1, 2)	RA (0, 3)	TI (2, −3)	MI (4, −3)	SS (5, −2)	NT (−1, 0)	UP (−2, 2)

OBJECTIVE 6–a: To solve systems of equations by graphing.

1



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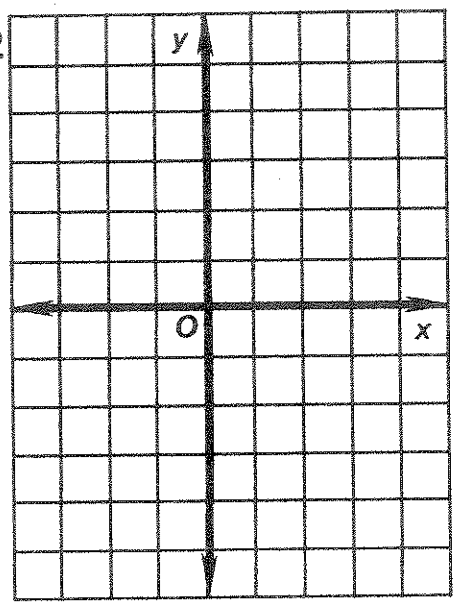

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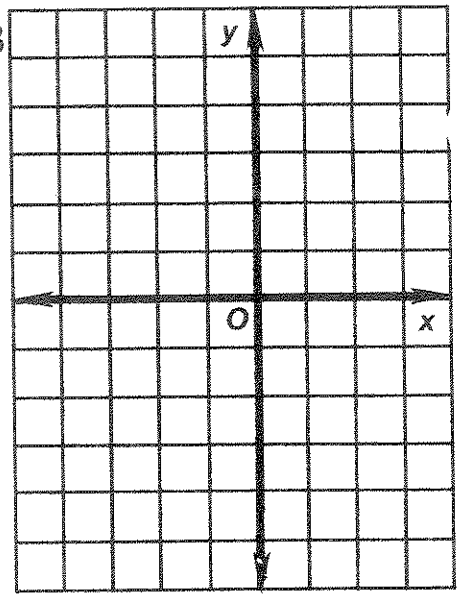

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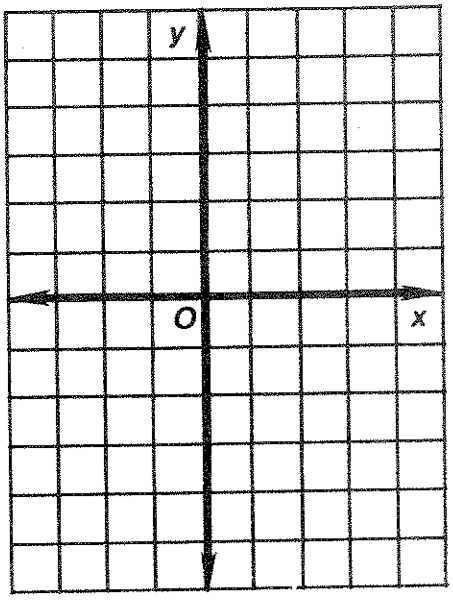

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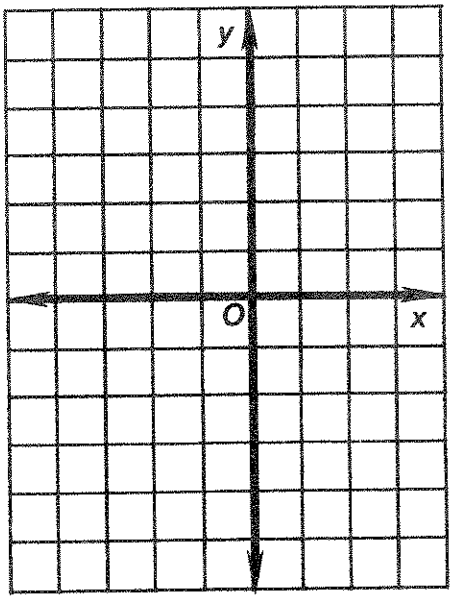

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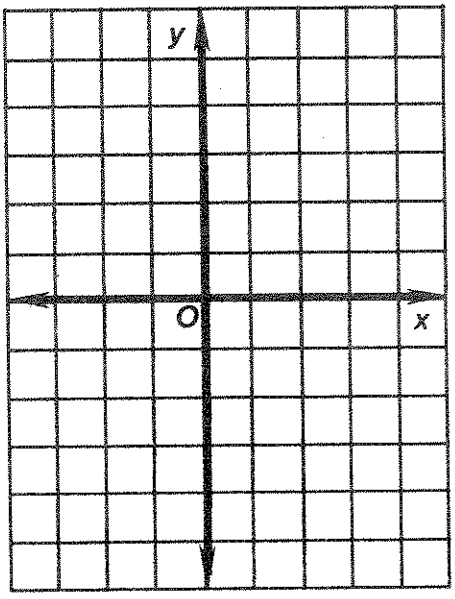

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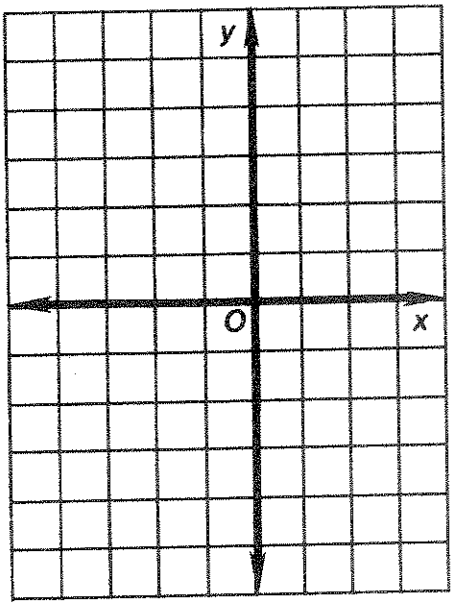

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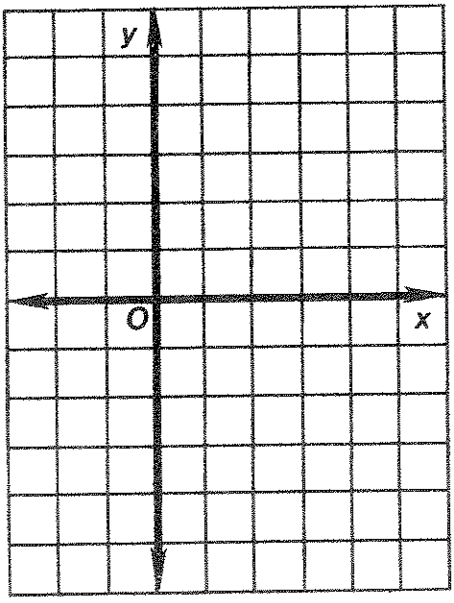
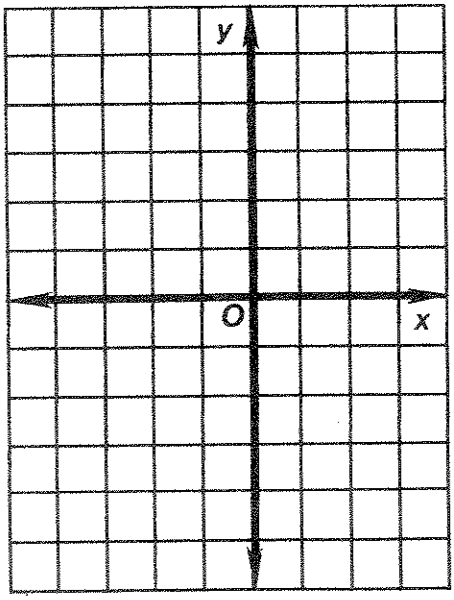


9



1-6 use substitution

7-12 use elimination

Why Does the President Put Vegetables In His Blender?

Solve each system of equations below by the substitution method. Find the solution in the nearest answer column and notice the two letters next to it. Print these letters in the two boxes at the bottom of the page that contain the number of that exercise.

(1) $y = 2x$
$x + y = 12$

(2) $x = 3y - 1$
$x + 2y = 9$

(3) $y = 2x - 5$
$4x - y = 7$

(4) $2x - 3y = 12$
$x = 4y + 1$

(5) $y = -x + 5$
$x - 4y = 10$

(6) $x - y = 2$
$4x - 3y = 11$

(7) $-2x + 3y = 14$
$x + 2y = 7$

(8) $6x - y = -4$
$2x + 2y = 15$

(9) $x + y = 1$
$2x - y = -2$

(10) $5x - 3y = -11$
$x - 2y = 2$

(11) $x - y = 3$
$6x + 4y = 13$

(12) $2x - y = 16$
$-x + 2y = -8$

Answers 1–6:

(4, 2)	LD
(6, −1)	NG
(1, 2)	TR
(4, 8)	HE
(1, −3)	HO
(6, −3)	NT
(5, 3)	FO
(9, 2)	PI
(7, 3)	TH
(5, 2)	IS

Answers 7–12:

$\left(\frac{1}{2}, -3\right)$	IN
$\left(8, -\frac{1}{2}\right)$	VE
$\left(-\frac{1}{3}, \frac{4}{3}\right)$	RL
(8, 0)	AS
(−3, 4)	TE
$\left(\frac{1}{2}, 7\right)$	HI
$\left(\frac{5}{2}, \frac{4}{3}\right)$	LO
(−1, 4)	RW
$\left(\frac{5}{2}, -\frac{1}{2}\right)$	PE
(−4, −3)	ED

1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8	9	9	10	10	11	11	12	12

"What do you call a donkey with a defect?"

Solve each system. The answer to each problem will match a letter that will allow you to figure out the joke.

1. $x + 2y = 5$
   $y = 3x - 1$

2. $3x - 3y = 7$
   $2x + 3y = 3$

3. $2x + 4y = 10$
   $x - y = -7$

4. $3x + 5y = -10$
   $2x - 3y = 6$

5. $7x - y = 6$
   $2x + 9y = 11$

6. $x = \frac{4}{3}y$
   $\frac{1}{2}x + \frac{1}{3}y = 3$

7. $\frac{5x + y}{3} = \frac{7}{2}$
   $\frac{5}{2}x - \frac{y}{3} = 4$

(1,1) S	(2,0) I	(1,2) T	(0,-2) A	(-4,-3) E
$\left(\frac{9}{5}, \frac{3}{2}\right)$ A	$\left(\frac{1}{2}, 5\right)$ U	$\left(2, \frac{-1}{3}\right)$ L	(4, 3) P	(-3, 4) H

$\overline{7}$ $\overline{5}$ $\overline{6}$ $\overline{3}$ $\overline{4}$ $\overline{2}$ $\overline{1}$

Solving linear systems of equations

Joke #29