

12-12 Quiz Review 2

Date _____ Period _____

Solve each system by elimination.

1) $x + 3y = -28$
 $-x + y = -4$

2) $-4x - 10y = 0$
 $-7x - 10y = -30$

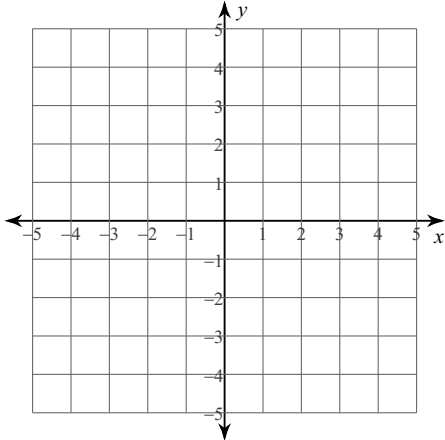
Solve each system by substitution.

3) $-3x + y = -19$
 $3x - 2y = 20$

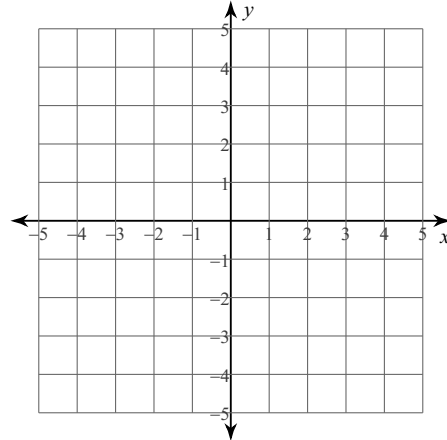
4) $4x - 8y = -16$
 $x + 8y = 16$

Solve each system by graphing.

5) $y = -x + 3$
 $y = -5x - 1$



6) $x - 4y = -8$
 $3x + 4y = -8$



- 7) Lisa and Julio each improved their yards by planting daylilies and ornamental grass. They bought their supplies from the same store. Lisa spent \$97 on 5 daylilies and 6 bunches of ornamental grass. Julio spent \$96 on 12 daylilies and 3 bunches of ornamental grass. What is the cost of one daylily and the cost of one bunch of ornamental grass?

Solve each system. Use either elimination or substitution.

8) $-4x + 6y = 6$
 $6x - 6y = 12$

9) $7x + 9y = 6$
 $-7x - 9y = -6$

$$\begin{aligned} 10) \quad & -2x - 3y = -13 \\ & 2x + y = -1 \end{aligned}$$

$$\begin{aligned} 11) \quad & x + 4y = -14 \\ & -4x - 3y = 4 \end{aligned}$$

$$\begin{aligned} 12) \quad & x - 4y = 3 \\ & -x - 2y = -3 \end{aligned}$$

$$\begin{aligned} 13) \quad & -2x - 2y = 5 \\ & x + y = -4 \end{aligned}$$

$$\begin{aligned} 14) \quad & 8x + 11y = 30 \\ & -3x - y = 20 \end{aligned}$$

$$\begin{aligned} 15) \quad & 6x - y = 7 \\ & -12x + 2y = -14 \end{aligned}$$

$$\begin{aligned} 16) \quad & y = -7 \\ & 6x + 5y = 7 \end{aligned}$$

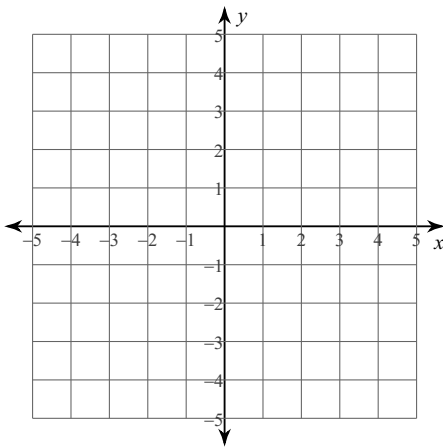
$$\begin{aligned} 17) \quad & 28x - 7y = 19 \\ & 4x - y = 4 \end{aligned}$$

$$18) \begin{aligned} -9x + 16y &= 2 \\ 8x - 8y &= -8 \end{aligned}$$

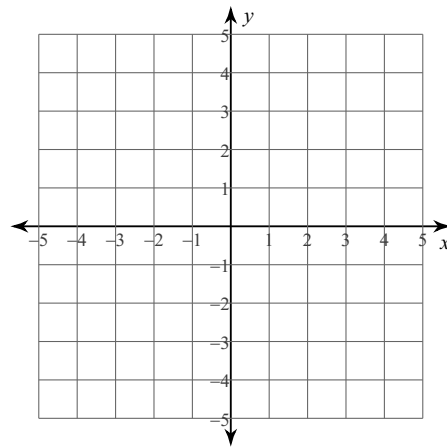
$$19) \begin{aligned} x - 4y &= 29 \\ -6x - 12y &= 6 \end{aligned}$$

Solve each system by graphing.

$$20) \begin{aligned} y &= 3x + 4 \\ y &= -4x - 3 \end{aligned}$$



$$21) \begin{aligned} 3x + 2y &= 6 \\ 3x + 2y &= -8 \end{aligned}$$



22) Darryl and Totsakan each improved their yards by planting grass sod and ivy. They bought their supplies from the same store. Darryl spent \$20 on 5 ft² of grass sod and 1 pot of ivy. Totsakan spent \$51 on 7 ft² of grass sod and 6 pots of ivy. Find the cost of one ft² of grass sod and the cost of one pot of ivy.

Answers to 12-12 Quiz Review 2 (ID: 1)

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|--|---------------------------------|--|-----------------|
| 1) $(-4, -8)$ | 2) $(10, -4)$ | 3) $(6, -1)$ | 4) $(0, 2)$ |
| 5) $(-1, 4)$ | 6) $(-4, 1)$ | 7) daylily: \$5, bunch of ornamental grass: \$12 | |
| 8) $(9, 7)$ | 9) Infinite number of solutions | | 10) $(-4, 7)$ |
| 11) $(2, -4)$ | 12) $(3, 0)$ | 13) No solution | 14) $(-10, 10)$ |
| 15) Infinite number of solutions | | 16) $(7, -7)$ | 17) No solution |
| 18) $(-2, -1)$ | 19) $(9, -5)$ | 20) $(-1, 1)$ | 21) No solution |
| 22) ft ² of grass sod: \$3, pot of ivy: \$5 | | | |