

Review Worksheet for Unit 2 Quiz #2

Name _____ Class Period _____

Determine if the given point is a solution to the system of equations:

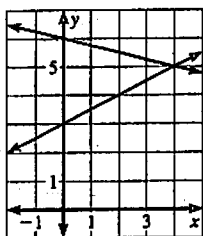
$$\begin{aligned} -x + y &= -2 \\ 2x + y &= 10 \end{aligned}$$

1. $(-4, -2)$

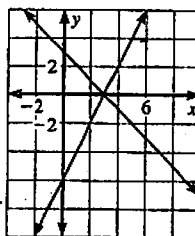
2. $(4, 2)$

Use the graph to solve the linear system. Check your answer algebraically.

3.
$$\begin{aligned} -x + 2y &= 6 \\ x + 4y &= 24 \end{aligned}$$

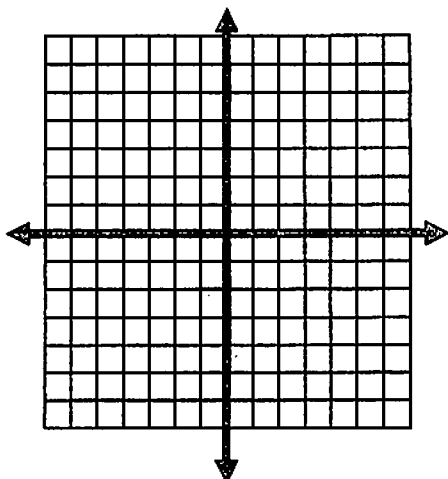


4.
$$\begin{aligned} x + y &= 3 \\ -2x + y &= -6 \end{aligned}$$

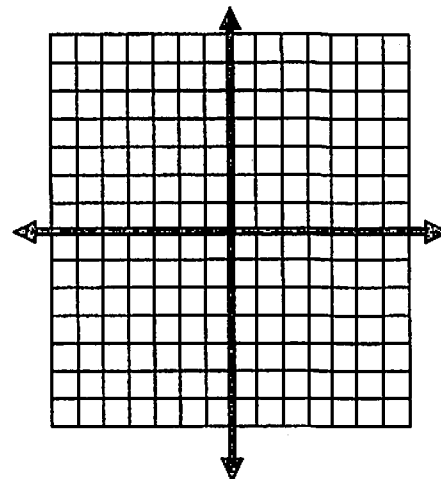


Find the solution of the linear system graphically. Write your solution in the blank provided.

_____ 5.
$$\begin{aligned} y &= -x + 3 \\ y &= x + 1 \end{aligned}$$



_____ 6.
$$\begin{aligned} y &= -2x + 7 \\ -3x + 6y &= 12 \end{aligned}$$



Use substitution to solve the linear system. SHOW ALL WORK and write your solution in the space provided.

_____ 7.
$$\begin{aligned} y - 2x &= -2 \\ 6x + 2y &= 16 \end{aligned}$$

_____ 8.
$$\begin{aligned} 4x - y &= -6 \\ y &= 2x + 2 \end{aligned}$$

Use elimination to solve the linear system. SHOW ALL WORK and write your solution in the space provided.

_____ 9.
$$\begin{aligned} 5x - 3y &= 7 \\ x + 3y &= 5 \end{aligned}$$

_____ 10.
$$\begin{aligned} -3x + 3y &= -9 \\ 6x + 2y &= 2 \end{aligned}$$

Use any method to solve the linear system. SHOW ALL WORK and write your solution in the space provided.

_____ 11.
$$\begin{aligned} 6x - 9y &= 18 \\ 2x - 3y &= 10 \end{aligned}$$

_____ 12.
$$\begin{aligned} x - 2y &= 5 \\ 3x - 5y &= 8 \end{aligned}$$

Systems of Linear Equations Word Problems

13. Bill wants to buy some CDs at the music store. Used ones sell for \$4.99, and new ones sell for \$13.99. He has \$75 to spend that he got for his birthday. Write an equation for this scenario and decide if Bill can buy 4 used and 4 new CDs?
14. A store sold 32 pairs of jeans for a total of \$1050. Brand A sold for \$30 per pair and Brand B sold for \$35 per pair. How many of Brand A were sold?
15. You are selling tickets for a basketball game. Student tickets cost \$3 and general admission tickets cost \$5. You sell 350 tickets and collect \$1450. How many of each type of ticket did you sell?