

Systems of Equations Quiz

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Date _____ Period _____

Solve each system by elimination.

1)
$$\begin{aligned} -x + 4y &= -7 \\ -9x - 8y &= -19 \end{aligned}$$

2)
$$\begin{aligned} 7x + 4y &= -2 \\ 8x + 6y &= 12 \end{aligned}$$

Solve each system by substitution.

3)
$$\begin{aligned} y &= 7x - 14 \\ 2x + 2y &= -12 \end{aligned}$$

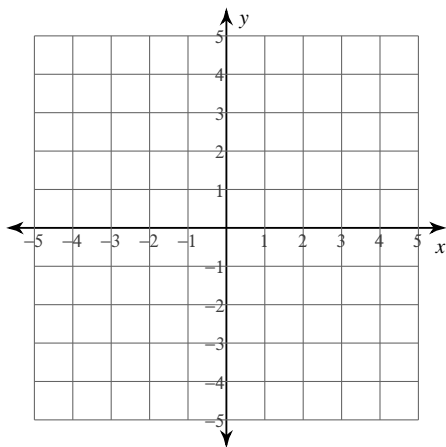
4)
$$\begin{aligned} x - 4y &= 18 \\ -2x + 3y &= -16 \end{aligned}$$

- 5) Shayna's school is selling tickets to a choral performance. On the first day of ticket sales the school sold 5 adult tickets and 9 child tickets for a total of \$91. The school took in \$100 on the second day by selling 8 adult tickets and 3 child tickets. What is the price each of one adult ticket and one child ticket?

- 6) Ndiba and Joe are selling cheesecakes for a school fundraiser. Customers can buy New York style cheesecakes and apple cheesecakes. Ndiba sold 6 New York style cheesecakes and 14 apple cheesecakes for a total of \$156. Joe sold 12 New York style cheesecakes and 4 apple cheesecakes for a total of \$96. What is the cost each of one New York style cheesecake and one apple cheesecake?

Solve each system by graphing.

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



Answers to Systems of Equations Quiz

1) $(3, -1)$

2) $(-6, 10)$

3) $(1, -7)$

4) $(2, -4)$

5) adult ticket: \$11, child ticket: \$4

6) New York style cheesecake: \$5, apple cheesecake: \$9

7) $(-4, -1)$