

Student: _____
Date: _____

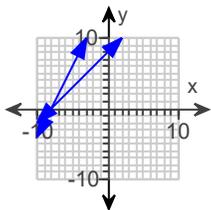
Instructor: Deb Wertz
Course: MAP102 MASTER

Assignment: Homework #21

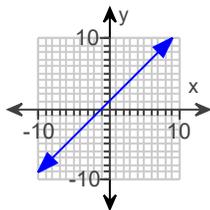
1. Determine which of the graphs is of a system of linear equations that has no solution.

Which of the following graphs is of a system that has no solution? Choose the correct graph below.

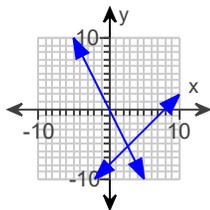
A.



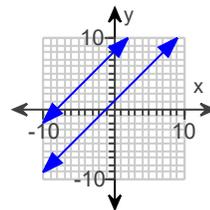
B.



C.



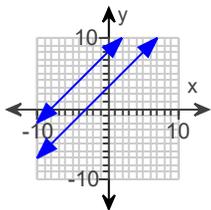
D.



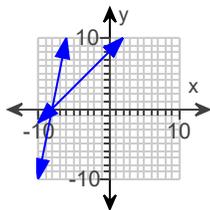
2. Determine which of the graphs is of a system of linear equations that has an infinite number of solutions.

Which of the following graphs is of a system that has infinitely many intersection points? Choose the correct graph below.

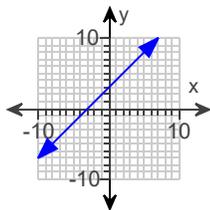
A.



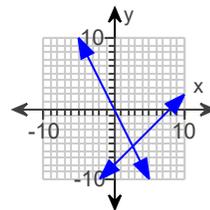
B.



C.



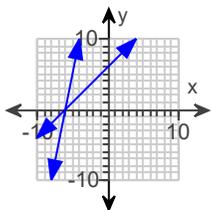
D.



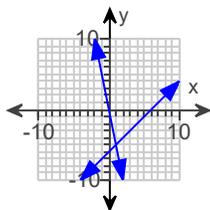
3. Determine which of the graphs is of a system of linear equations that has $(1, -5)$ as its only solution.

Which of the below graphs is of a system of linear equations that has $(1, -5)$ as its only solution? Choose the correct graph below.

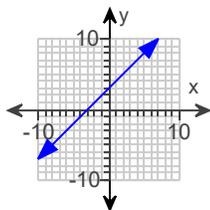
A.



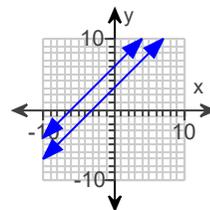
B.



C.



D.



4. Determine whether the given ordered pair is a solution of the system.

$$\begin{cases} x - y = 5 \\ 2x - 3y = 14 \end{cases} \quad (1, -4)$$

Is $(1, -4)$ a solution of the system?

Yes

No

5. Solve the system of equations.

$$\begin{cases} 2x = 4 \\ y = 5 - x \end{cases}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. There is one solution. The solution of the system is _____ .
(Simplify your answer. Type an ordered pair.)
- B. The solution set of the system is $\{(x,y) \mid y = 5 - x\}$.
- C. The solution set is \emptyset .
-

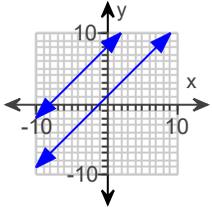
6. Solve the system of equations.

$$\begin{cases} 4x - y = -1 \\ y = -4x \end{cases}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

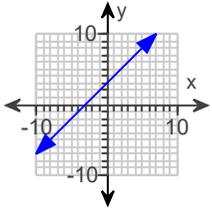
- A. There is one solution. The solution of the system is _____ .
(Simplify your answer. Type an ordered pair.)
- B. The solution set of the system is $\{(x,y) \mid 4x - y = -1\}$.
- C. The solution set is \emptyset .

1.



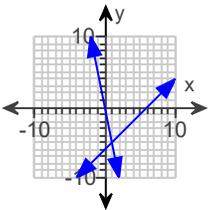
D.

2.



C.

3.



B.

4. Yes

5. A. There is one solution. The solution of the system is (2,3). (Simplify your answer. Type an ordered pair.)

6. A. There is one solution. The solution of the system is $\left(-\frac{1}{8}, \frac{1}{2}\right)$. (Simplify your answer. Type an ordered pair.)
