Book: Bittinger: Introductory and

Intermediate Algebra, 4e

Solve the following system of equations by the elimination method. 1.

$$\frac{1}{3}x + \frac{1}{4}y = 9$$

$$\frac{1}{3}x - \frac{5}{4}y = -15$$

What is the solution of the system? Select the correct choice below, and fill in the answer box if necessary.



 $^{\bullet}$ A. The solution is (15,16).

(Type an ordered pair. Use integers or fractions for any numbers in the expression.)

- ○B. There are infinitely many solutions.
- OC. There is no solution.
- 2. Find the linear function, f(x) = mx + b, whose graph has the given slope and y-intercept.

Slope is $-\frac{11}{7}$ and y-intercept is (0, -6).

The linear function is $f(x) = -\frac{11}{7}x - 6$.

Solve the given system by the substitution method. 3.

$$2x + y = 8$$

$$7x - 2y = 17$$

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



A. The solution is (3,2). (Type an ordered pair.)

- ○B. There are infinitely many solutions.
- Oc. There is no solution.
- Find an equation of the line having the given slope and containing the given point. Express 4. your answer in the form x = a, y = b, or y = mx + b.

$$m = -9, (5,0)$$

The equation of the line is y = -9x + 45.

Student: yaser almohaws

Instructor: fahad aljabr

Submitted: 12/25/14 9:52pm

Course: MATH-001: Fundamentals of

Math 11415

Book: Bittinger: Introductory and

Intermediate Algebra, 4e

Solve by the elimination method. 5.

$$x + 3y = 8$$
$$-x + 6y = 1$$

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

Assignment: Graded Homework 9



 $^{\bullet}$ A. The solution is (5,1).

(Simplify your answer. Type an ordered pair. Use integers or fractions for any numbers in the expression.)

- OB. There are infinitely many solutions.
- OC. There is no solution.

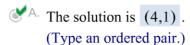
Solve the system of equations by graphing. 6. Then classify the system.

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

Use the graphing tool to graph the system.



What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



- ○B. There are infinitely many solutions.
- Oc. There is no solution.

Is the system consistent or inconsistent?



consistent

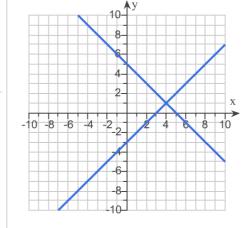


Are the equations dependent or independent?

dependent



independent



Instructor: fahad aljabr

Course: MATH-001: Fundamentals of

Assignment: Graded Homework 9

Math 11415

Book: Bittinger: Introductory and

Intermediate Algebra, 4e

7. Solve the system of equations using the substitution method.

$$2x + 3y = -4$$

$$2x - y = 7$$

Select the correct choice below and fill in any answer boxes present in your choice.



The solution of the system is $\left(\frac{17}{8}, -\frac{11}{4}\right)$.

(Simplify your answer. Type an ordered pair. Use integers or fractions for any numbers in the expression.)

- OB. There are infinitely many solutions.
- OC. There is no solution.
- 8. The plans for a shed call for a rectangular floor with a perimeter of 186 ft. The length is two times the width. Find the length and width.

The width is 31 ft. The length is 62 ft.

Instructor: fahad aljabr

Course: MATH-001: Fundamentals of

Math 11415

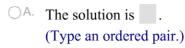
Book: Bittinger: Introductory and

Intermediate Algebra, 4e

9. Solve the system of equations by graphing. Then classify the system.

$$2x - 6y = 42$$
$$3x - 9y = -24$$

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



OB. There are infinitely many solutions.

C. There is no solution.

Is the system consistent or inconsistent?

consistent

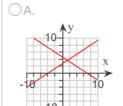
inconsistent

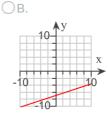
Are the equations dependent or independent?

dependent

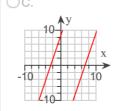
independent

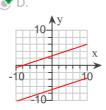
Choose the correct graph below.





Assignment: Graded Homework 9





10. Find an equation of the line having the given slope and containing the given point.

$$m = -3, (1,4)$$

The equation of the line is y = -3x + 7.

(Simplify your answer. Type your answer in slope-intercept form. Use integers or fractions for any numbers in the equation.)

Instructor: fahad aljabr

Assignment: Graded Homework 9

Course: MATH-001: Fundamentals of

Math 11415

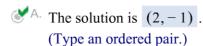
Book: Bittinger: Introductory and

Intermediate Algebra, 4e

11. Solve the system of equations by graphing. Then classify the system.

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

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



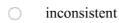
OB. There are infinitely many solutions.

OC. There is no solution.

Is the system consistent or inconsistent?



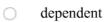
consistent



Are the equations dependent or independent?

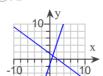


independent

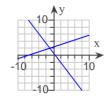


Choose the correct graph below.

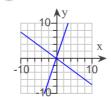




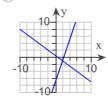








øD.



Instructor: fahad aljabr

Assignment: Graded Homework 9

Course: MATH-001: Fundamentals of

Math 11415

Book: Bittinger: Introductory and Intermediate Algebra, 4e

12. Solve the system of functions by graphing. Then classify the system.

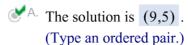
$$f(x) = -\frac{1}{9}x + 6$$

$$g(x) = \frac{2}{9}x + 3$$

Use the graphing tool to graph the system.



What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



- OB. There are infinitely many solutions.
- Oc. There is no solution.

Is the system consistent or inconsistent?

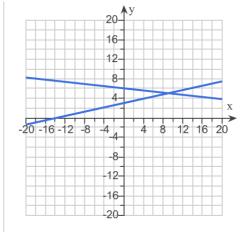
- Inconsistent

Consistent

Are the equations dependent or independent?

Independent

Dependent



Instructor: fahad aljabr

Assignment: Graded Homework 9 Course: MATH-001: Fundamentals of

Math 11415

Book: Bittinger: Introductory and

Intermediate Algebra, 4e

Solve the system of equations by graphing. 13. Then classify the system.

$$7x - 6y = -18$$

 $6y - 7x = 18$

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

 \bigcirc A. The solution is \bigcirc . (Type an ordered pair.)

✓B. There are infinitely many solutions.

OC. There is no solution.

Is the system consistent or inconsistent?

Inconsistent

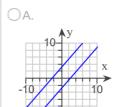
Consistent

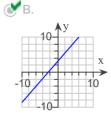
Are the equations dependent or independent?

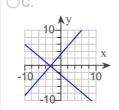
Dependent

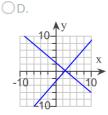
Independent

Choose the correct graph below.









14. Solve by the elimination method.

$$3x + 9y = 45$$
$$9x - 9y = -81$$

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



 $^{\bullet}$ A. The solution is (-3,6).

(Simplify your answer. Type an ordered pair. Use integers or fractions for any numbers in the expression.)

OB. There are infinitely many solutions.

There is no solution.

Instructor: fahad aljabr

Assignment: Graded Homework 9

Course: MATH-001: Fundamentals of

Math 11415

Book: Bittinger: Introductory and Intermediate Algebra, 4e

15. Solve by the elimination method.

$$0.13x + 0.03y = 0.62$$

 $0.6x - 0.2y = 3.2$

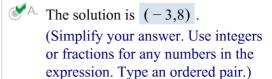
Determine the solution of the system. Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The solution is (5, -1). (Type an ordered pair.)
- OB. There are infinitely many solutions.
- OC. There is no solution.

16. Solve using the substitution method.

$$-2x + y = 14$$
$$2x + 19y = 146$$

Select the correct choice below and fill in any answer boxes in your choice.



- OB. There are infinitely many solutions.
- OC. There is no solution.

17. Solve the following system of equations.

$$x + 5y = 2$$

$$x = 8 - 5y$$

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- OA. The solution is . (Type an ordered pair.)

Student: yaser almohaws

Instructor: fahad aljabr

Assignment: Graded Homework 9

Submitted: 12/25/14 9:52pm

Course: MATH-001: Fundamentals of

Math 11415

Book: Bittinger: Introductory and Intermediate Algebra, 4e

Solve by the elimination method. 18.

$$3x + 4y = 5$$

$$6x + 8y = 10$$

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

OA. The solution is . (Simplify your answer. Type an ordered pair. Use integers or fractions for any numbers in the expression.)

∠
B. There are infinitely many solutions.

OC. There is no solution.

Solve the following system of equations by the elimination method. 19.

$$8x + 3y = -11$$

$$3x - y = -2$$

What is the solution of the system? Select the correct choice below, and fill in the answer box if necessary.

 \checkmark A. The solution is (-1,-1).

(Type an ordered pair. Use integers or fractions for any numbers in the expression.)

- ○B. There are infinitely many solutions.
- C. There is no solution.

Find the slope-intercept equation of the line that has the given characteristics. 20.

Slope -5 and y-intercept (0,5)

The equation is y = -5x + 5.

(Simplify your answer. Type your answer in slope-intercept form.)

Solve by the substitution method. 21.

$$4x + 5y = 24$$
$$x = 68 - 9y$$

What is the solution of the system? Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



 $^{\bullet}$ A. The solution is (-4.8).

(Type an ordered pair.)

○B. There is no solution.

Instructor: fahad aljabr

Course: MATH-001: Fundamentals of

Assignment: Graded Homework 9

Math 11415

Book: Bittinger: Introductory and Intermediate Algebra, 4e

22. Find an equation of the line having the given slope and containing the given point.

$$m = \frac{6}{7}, (3, -1)$$

The equation of the line is $y = \frac{6}{7}x - \frac{25}{7}$.

(Type an expression using x as the variable. Simplify your answer. Use integers or fractions for any numbers in the expression.)

23. Solve the system of equations using the substitution method.

$$2x + 4y = -5$$

$$2x - y = 7$$

Select the correct choice below and fill in any answer boxes present in your choice.



The solution of the system is $\left(\frac{23}{10}, -\frac{12}{5}\right)$.

(Simplify your answer. Type an ordered pair. Use integers or fractions for any numbers in the expression.)

- OB. There are infinitely many solutions.
- OC. There is no solution.