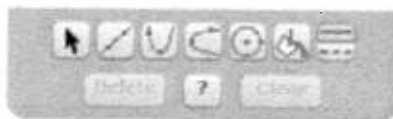
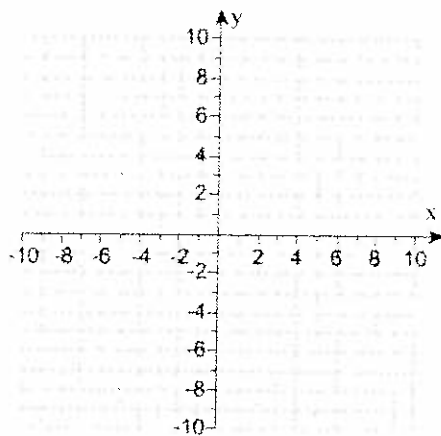


Solve the system of equations by graphing. Then classify the system.

$$x + y = 16$$

$$x - y = -2$$

Use the graphing tool to graph the system. If both equations yield the same line, graph the line twice.



What is the solution of the system?

(Type an ordered pair. Type N if there is no solution. Type R if the solution is all real numbers.)

Is the system consistent or inconsistent?

- inconsistent consistent

Are the equations dependent or independent?

- dependent independent

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

$$2x - y = 18$$

$$2x + 3y = -6$$

What is the solution of the system?

(Type an ordered pair. Type N if there is no solution. Type R if the solution is all real numbers.)

Is the system consistent or inconsistent?

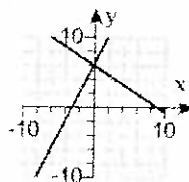
- consistent inconsistent

Are the equations dependent or independent?

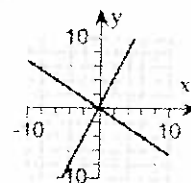
- dependent independent

Choose the correct graph below.

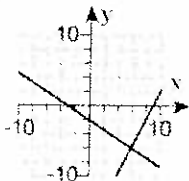
A.



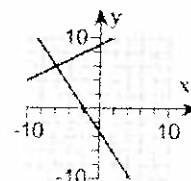
B.



C.



D.



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

$$6u + v = 20$$

$$6u = v + 28$$

What is the solution of the system?

(Type an ordered pair. Type N if there is no solution. Type R if the solution is all real numbers.)

Is the system consistent or inconsistent?

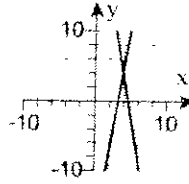
- inconsistent consistent

Are the equations dependent or independent?

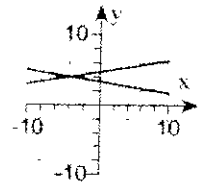
- independent dependent

Choose the correct graph below.

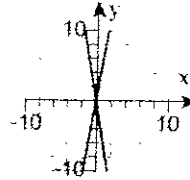
A.



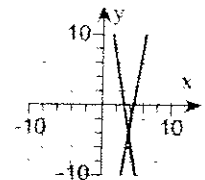
B.



C.



D.



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

$$y = -x - 6$$

$$6x - 5y = -14$$

What is the solution of the system?

(Type an ordered pair. Type N if there is no solution. Type R if the solution is all real numbers.)

Is the system consistent or inconsistent?

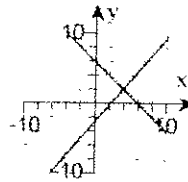
- Consistent
 Inconsistent

Are the equations dependent or independent?

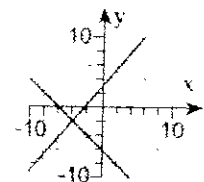
- Dependent
 Independent

Choose the correct graph below.

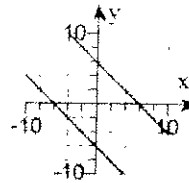
A.



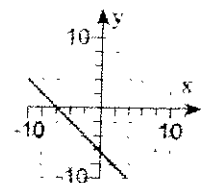
B.



C.



D.



Classify the graph of the system as consistent or inconsistent and as dependent or independent. Then match it with the correct system.

Is the system consistent or inconsistent?

- Inconsistent
 Consistent

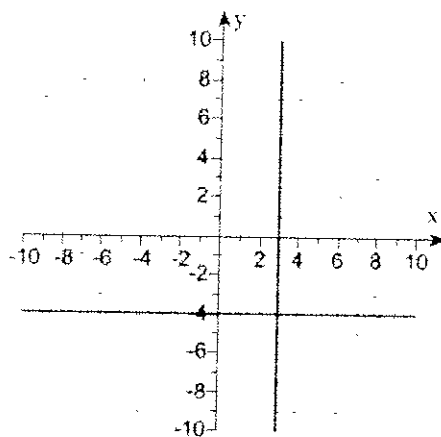
Are the equations dependent or independent?

- Dependent
 Independent

Which system matches the graph?

- A. $x = 3, y = -4$
 B. $y = 3x, y = -4x$
 C. $x = -4, y = 3$

Solution $(3, -4)$



First, classify the graph of the system as consistent or inconsistent and as dependent or independent. Then match it with a system of equations.

Is the system consistent or inconsistent?

- Consistent
 Inconsistent

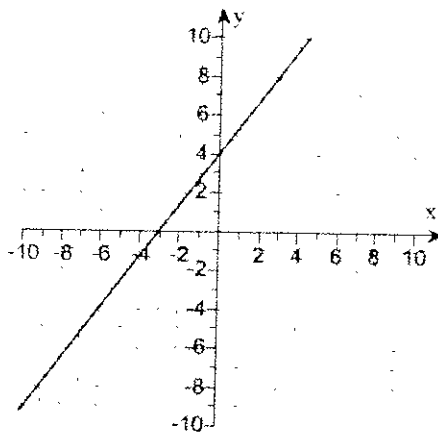
Are the equations dependent or independent?

- Independent
 Dependent

Which system of equations matches the graph?

- $8x + 6y = -24$
 $-8x - 6y = 24$
 $8x - 6y = -24$
 $-8x + 6y = 24$

Solutions: Infinitely many



First, classify the graph of the system as consistent or inconsistent and as dependent or independent. Then match it with a system of equations.

Is the system consistent or inconsistent?

- Inconsistent
 Consistent

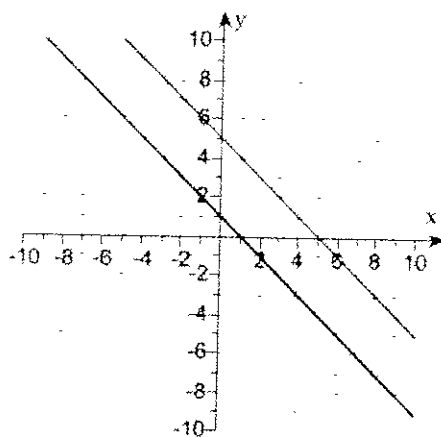
Are the equations dependent or independent?

- Dependent
 Independent

Which system of equations matches the graph?

- $x + y = 1$, $y = -x + 5$
 $x - y = 1$, $y = x + 5$

Solutions: No solution



Solve by the substitution method.

$$\begin{aligned} 6x - 3y &= -51 \\ 7x + 72 &= y \end{aligned}$$

What is the solution of the system?

(Type an ordered pair. Type N if there is no solution.)

Solve by the substitution method.

$$\begin{aligned} 2m + n &= -7 \\ m - 2n &= 19 \end{aligned}$$

What is the solution of the system?

(Type an ordered pair. Type N if there is no solution.)

Solve by the substitution method.

$$\begin{aligned} 6x + 9y &= 42 \\ -2x + y &= 10 \end{aligned}$$

What is the solution of the system?

(Type an ordered pair. Type N if there is no solution.)

Solve by the substitution method.

$$2x + 7y = 35$$

$$-4x + y = 35$$

What is the solution of the system?

(Type an ordered pair. Type N if there is no solution.)

The perimeter of a rectangle is 120 m. The length is 3 m more than twice the width. Find the dimensions.

What is the length?

 m

(Simplify your answer.)

What is the width?

 m

(Simplify your answer.)

Hockey teams receive 2 points when they win and 1 point when they tie. One season, a team won a championship with 65 points. They won 10 more games than they tied. How many wins and how many ties did the team have?

How many wins did the team have?

How many ties did the team have?

Solve by the elimination method.

$$x + 2y = 10$$

$$-x + 3y = 5$$

What is the solution of the system?

(Type an ordered pair. Type an integer or a fraction. Type N if there is no solution. Type I if there are infinitely many solutions.)

Solve the system by the elimination method.

$$5x + 5y = -7$$

$$7x - 3y = 19$$

What is the solution to the system?

(Type an ordered pair. Type an integer or a fraction. Type N if there is no solution. Type I if there are infinitely many solutions.)

Solve by the elimination method.

$$0.3x - 0.2y = 4$$

$$0.4x + 0.3y = -1$$

What is the solution of the system?

(Type an ordered pair. Type an integer or a fraction. Type N if there is no solution. Type I if there are infinitely many solutions.)

Solve by the elimination method.

$$4x - 9y = 14.5$$

$$7y - 2x = -8.5$$

What is the solution of the system?

(Type an ordered pair. Type an integer or a decimal. Type N if there is no solution. Type I if there are infinitely many solutions.)

Solve by the elimination method.

$$0.05x + 0.25y = 66$$

$$0.15x + 0.05y = 72$$

What is the solution of the system?

(Type an ordered pair. Type an integer or a decimal. Type N if there is no solution. Type I if there are infinitely many solutions.)

The perimeter of a rectangle is 230 inches. The length exceeds the width by 73 inches. Find the length and the width.

The length is inches.

(Type an integer or a decimal.)

The width is inches.

(Type an integer or a decimal.)

The Everton College store paid \$1870 for an order of 50 calculators. The store paid \$11 for each scientific calculator. The others, all graphing calculators, cost the store \$55 each. How many of each type of calculator was ordered?

The store ordered scientific calculators and graphing calculators.

Snookers Lumber can convert logs into either lumber or plywood. In a given day, the mill turns out twice as many units of plywood as lumber. It makes a profit of \$25 on a unit of lumber and \$40 on a unit of plywood. How many of each unit must be produced and sold in order to make a profit of \$10815?

Snookers Lumber must produce and sell units of lumber and units of plywood to make a profit of \$10815.

A disc jockey must play 14 commercial spots during 1 hour of a radio show. Each commercial is either 30 seconds or 60 seconds long. If the total commercial time during 1 hour is 11 min, how many 30-second commercials were played that hour? How many 60-second commercials?

How many 30-second commercials were played that hour?

How many 60-second commercials were played that hour?

Soybean meal is 12% protein; cornmeal is 6% protein. How many pounds of each should be mixed together in order to get 240-lb mixture that is 9% protein?

How many pounds of the cornmeal should be in the mixture?

pounds

How many pounds of the soybean meal should be in the mixture?

pounds

A student makes a \$10.50 purchase at the bookstore with a \$20 bill. The store has no bills and gives the change in quarters and fifty-cent pieces. There are 30 coins in all. How many of each kind are there?

How many quarters are there in the change?

How many fifty-cent pieces are there in the change?