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Date:	Course: MAT/116	
Time:	Book: Bittinger: Introductory and	
	Intermediate Algebra, 3e ENHANCED	

Translate to an algebraic expression.

The product of 26% and some number

The translation is .

(Type the percentage as a decimal. Use n to represent some number.)

2.

3.

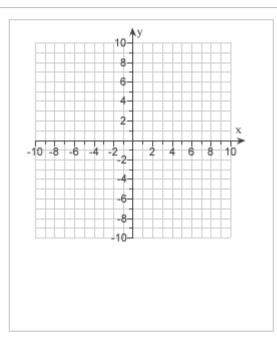
1.

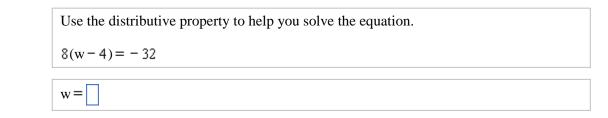
Use the intercepts to graph the equation.

x + 2y = 4

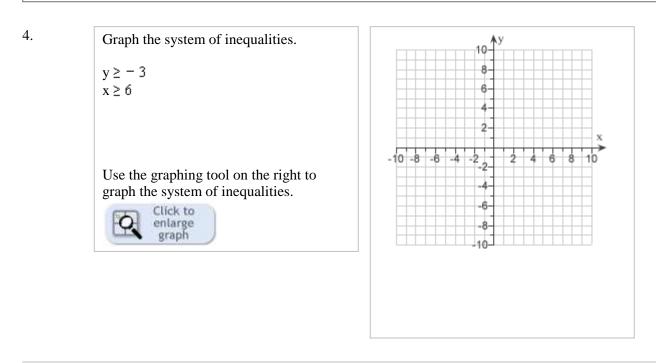
Use the graphing tool to graph the line. Use the intercepts when drawing the line. If only one intercept exists, use it and another point to draw the line.

Click to enlarge graph





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5.	Find the slope and the y-intercept.
	f(x) = -4x - 9
	The slope is
	The y-intercept is $(0,]$.

Determine whether (-4,5) is a solution of 4x + 8y = 1.

Is (-4,5) a solution to the equation? Yes

🔿 No

Find the slope, if it exists, of the line containing the pair of points.
(4,7) and (8, -1)
The slope m = ____.
(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

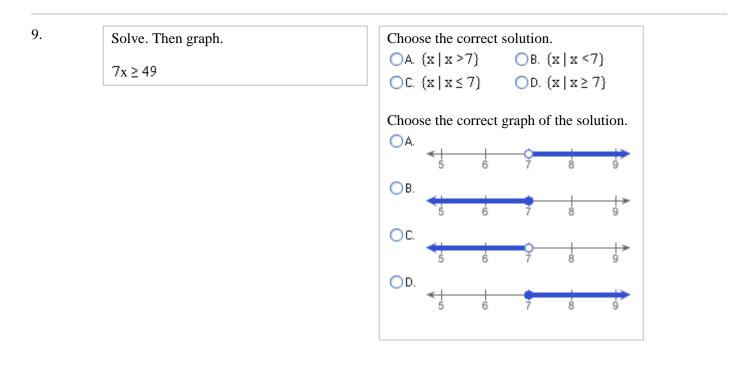
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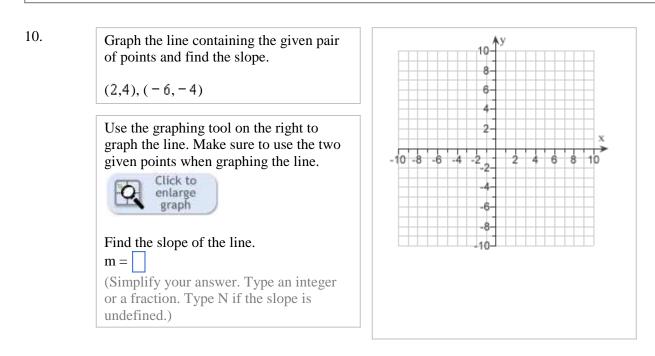
Find the domain of the function.

 $p(x) = x^2 - 2x + 3$

What is the domain of p? OA. $\{x \mid x \text{ is a real number}\}$ OB. $\{x \mid x \neq 0\}$ OC. $\{x \mid x \geq 0\}$ OD. $\{x \mid x \neq 3\}$



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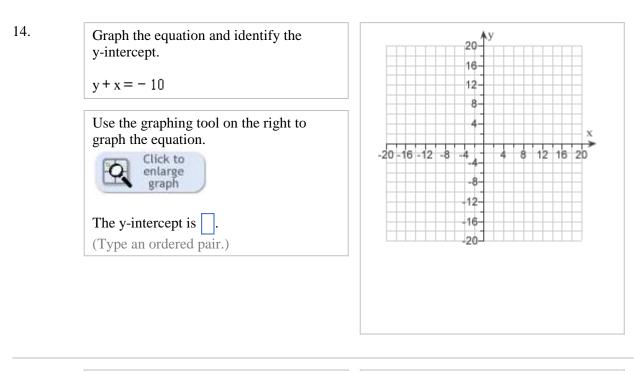
 $0.3x + 9 \le 0.7x - 8$

Solve.

The solution is $\{x \mid x \square \square\}$. (Simplify your answer. Type an inequality symbol; then type an integer or a decimal.)

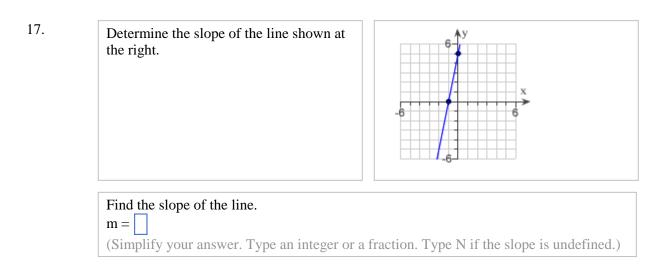
13.	Solve.	The solution is $\{x \mid u \leq x \leq u\}$.
	$-7 \leq 3x - 6 \leq -1$	(Type an integer or a fraction.)

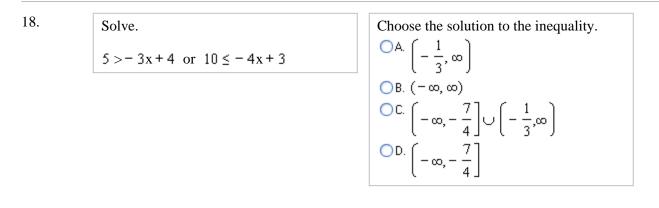
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15.	Solve using the multiplication principle. Don't forget to perform a check.	The solution is
	$-\frac{1}{2}x = -\frac{7}{8}$	(Simplify your answer. Type an integer or a fraction.)

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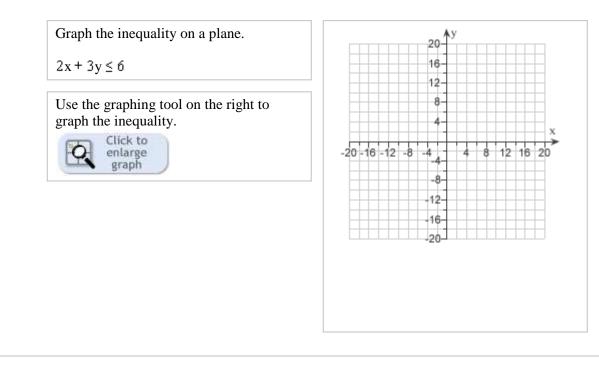


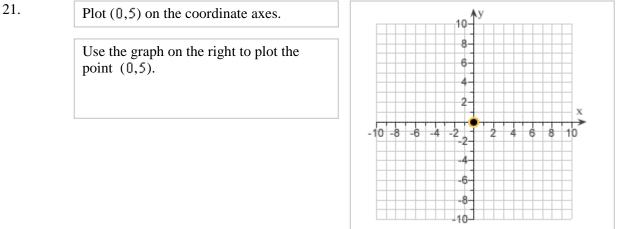


Simplify. 5[-8-(34-49)]

5[-8-(34-49)]=

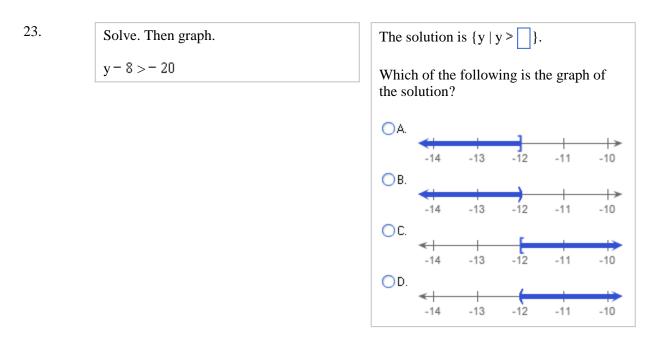
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Decide whether the pair of lines is parallel, perpendicular, or neither.

2x + 3y = 62x + 3y = 4

The lines are A. neither.

- ○B. perpendicular.
- ○C. parallel.

25.

24.

Solve.

$$\frac{5}{2}x + \frac{1}{4}x = \frac{5}{4} + x$$

The solution is x = . (Simplify your answer. Type an integer or a fraction.)

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Trains A and B are traveling in the same direction on parallel tracks. Train A is traveling at 40 miles per hour and train B is traveling at 60 miles per hour. Train A passes a station at 8:25 P.M. If train B passes the same station at 8:37 P.M., at what time will train B catch up to train A?

When will train B catch up with train A?



27.	Solve by the elimination method.	What is the solution of the system?
	3r - 7s = -29 7r + 3s = 29	(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.)

28. On three consecutive passes, a football team gains 8 yards, loses 15 yards, and gains 44 yards. What number represents the total net yardage?

The total net yardage is	yards.
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Find the slope, if it exists.

29.

x = -4

m=

(Simplify your answer. Type an integer or a fraction. Type N if the slope is undefined.)

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Solve the system of equations by
graphing. Then classify the system as
consistent or inconsistent and as
dependent or independent.

7x - 7y = -287y - 7x = 28

What is the solution of the system of equations?

- ○A. Infinitely many solutions
- OB. A point
- ○C. No solution

Is the system consistent or inconsistent?

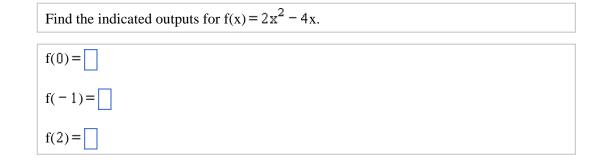
- O Consistent
- Inconsistent

Are the equations dependent or independent?

- Dependent
- Independent

31.

30.



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In 1995, the life expectancy of males in a certain country was 72.4 years. In 2001, it was 74.9 years. Let E represent the life expectancy in year t and let t represent the number of years since 1995.

The linear function E(t) that fits the data is

E(t) = [t + [].(Round to the nearest tenth.)

Use the function to predict the life expectancy of males in 2006.

E(11) =

(Round to the nearest tenth.)

Soybean meal is 18% protein; commeal is 9% protein. How many pounds of each should be mixed together in order to get 360-lb mixture that is 13% protein?

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

pounds

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

pounds

34.

33.

Find the domain of the function.

$$g(x) = \frac{2}{8 - 3x}$$

Choose the correct domain below.	
○A. {x x ≠ 0}	OB. {x x ≠ 2}
$O_{C} \left\{ x \mid x \neq \frac{8}{3} \right\}$	$OD.\left\{ x \mid x \geq \frac{8}{3} \right\}$

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35. The width of a rectangle is fixed at 27 cm. What lengths will make the perimeter greater than 96 cm?

The length must be greater than cm.

36.

Use < or > to make the statement true.
- 17 12
- 17 12

37.

Solve the following system of equations.

x + 3y = 2 (1)

x = 9 - 3y (2)

What is the solution of the system?

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

38.

Solve using the multiplication principle. The solution of the

 $9_{\rm X} = -81$

The solution is x =.

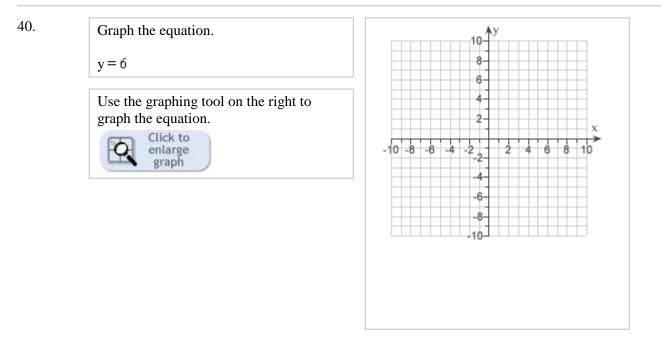
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The equation y = -1777x + 27,153 can be used to predict the number y of gun deaths in the United States x years after 2000, that is, x = 0 corresponds to 2000, x = 3 corresponds to 2003, x = 4 corresponds to 2004, and so on. Predict the number of gun deaths in 2004 and 2009. In what year will the number of gun deaths be 7606?

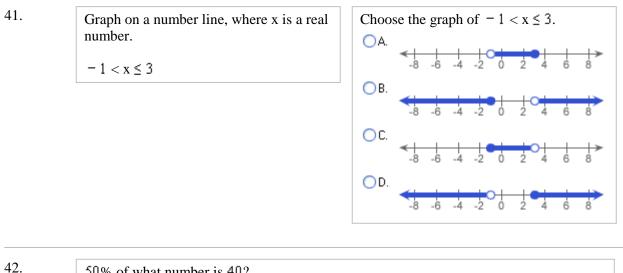
The predicted gun deaths in 2004 will be

The predicted gun deaths in 2009 will be

The predicted number of gun deaths will be 7606 in the year



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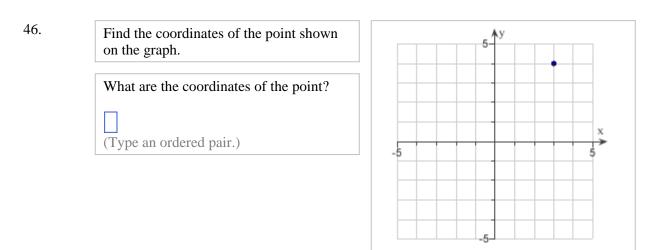
42.	50% of what number is 40?
	The answer is

43. Multiply. $-\frac{5}{9} \cdot \left(\frac{6}{5}\right) =$ (Type an integer or a simplified fraction.)

44.	Solve by the elimination method.	What is the solution of the system?
	4x + 5y = 5	(Type an ordered pair. Type an integer or
	8x + 10y = 10	a fraction. Type N if there is no solution. Type I if there are infinitely many
		solutions.)

45.	Solve.
	8x - (5x + 4) = 5
	The solution is $x = $

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The function H described by H(x) = 2.75x + 71.48 can be used to predict the height, in centimeters, of a woman whose humerus (the bone from the elbow to the shoulder) is x cm long.

Predict the height of a woman whose humerus is 38 cm long.

The predicted height of a woman whose humerus is 38 cm long is cm.

48.Solve by the substitution method.What is the solution of the system?3x + 7y = 10 \Box x = 18 - 6y(Type an ordered pair. Type N if there is no solution.)

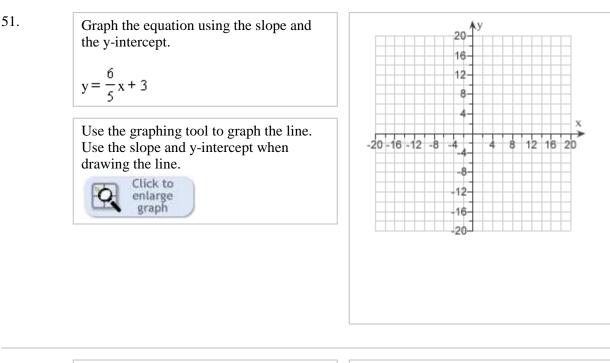
49. Amy paid \$71.04 for a pair of running shoes during a 30%-off sale. What was the regular price?

The regular price was \$____. (Round to the nearest cent, if necessary.)

47.

50.	Solve.	The solution is $\{x \mid \ \}$.
	- 0.2x <- 4	(Type an inequality.)

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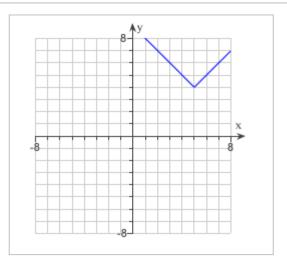


53.

Determine if the graph is a function.

Is this the graph of a function?

O Yes



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