MATH 830/GRACEY
PRACTICE FINAL

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Perform the indicated operation or operations.

1) $8.3 - (-3.8)$ 1) _____

A) -12.1 B) 4.5 C) 12.1 D) -4.5

2) $\left(-\frac{4}{15}\right) \div (-2)$ 2) _____

A) $-\frac{8}{15}$ B) $\frac{2}{15}$ C) $\frac{8}{15}$ D) $-\frac{2}{15}$

3) $\left(6\frac{2}{3}\right)\left(-4\frac{1}{6}\right)$ 3) _____

A) $-\frac{250}{9}$ B) $-\frac{5}{2}$ C) $-\frac{500}{3}$ D) -15

4) $\frac{8(-4) - 2(4)}{-2(7 - 2)}$ 4) _____

A) 30 B) -4 C) 4 D) 400

Simplify the algebraic expression.

5) $7x - (2x - 5)$ 5) _____

A) $5x - 5$ B) $-5x - 5$ C) $5x + 5$ D) $-5x + 5$

6) $1 - 2[5 - (5x - 5)]$ 6) _____

A) $10x - 19$ B) $-5x - 19$ C) $10x + 1$ D) $-5x + 1$

Provide an appropriate response.

7) List all the rational numbers in this set. 7) _____

$\left\{5, \sqrt{5}, -9, 0, \pi, \sqrt{9}, \frac{22}{7}, 0.15\right\}$

A) $5, -9, 0, \sqrt{9}, \frac{22}{7}, 0.15$ B) $5, -9, 0, \sqrt{9}, 0.15$

C) $5, -9, 0, \sqrt{9}, \frac{22}{7}$ D) $5, \sqrt{5}, -9, 0, \sqrt{9}, \frac{22}{7}, 0.15$

8) Insert either < or > in the area between the pair of numbers to make a true statement: -95 ___ -99. 8) _____

A) > B) <

9) Find the absolute value: $|-10.5|$. 9) _____

A) -10 B) 10 C) 10.5 D) -10.5

Evaluate the algebraic expression for the given value of the variable.

10) $x^2 - 7x$; $x = -10$ 10) _____

A) -170 B) 170 C) -30 D) 30

Provide an appropriate response.

11) Use the commutative property of addition to write an equivalent algebraic expression: $9(x + 2)$. 11) _____

A) $(x + 2)9$ B) $9(2 + x)$ C) $9(x + 2)$ D) $2(x + 9)$

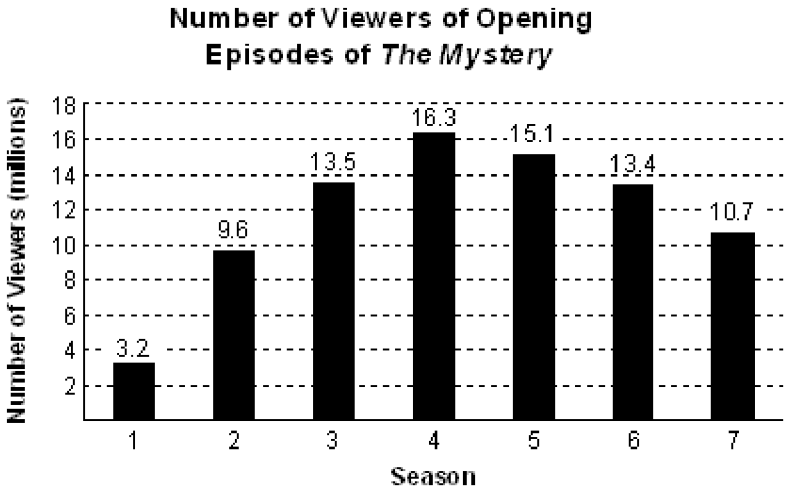
Determine whether the given number is a solution of the equation.

12) $\frac{1}{3}(x + 1) = \frac{1}{15}x + \frac{4}{3}$; -9 12) _____

A) not a solution B) solution

Solve.

13) The Mystery TV show demonstrated just how complex and involving TV storytelling could be. The bar graph shows the number of viewers in the series opening episodes. 13) _____



The number of viewers of the opening episodes of The Mystery, V, in millions, can be described by the mathematical model $V = -n^2 + 9n - 5$, where n is the season number. Use the formula to find the number of viewers of the opening episode of season 7. Does the mathematical model underestimate or overestimate the actual number of viewers shown by the bar graph? By how many million?

A) 9 million; overestimates by 1.7 million
B) 44 million; underestimates by 33.3 million
C) 107 million; overestimates by 117.7 million
D) 9 million; underestimates by 1.7 million

Solve the equation.

14) $8x - 6 = -70$ 14) _____

A) $\{-68\}$ B) $\{-8\}$ C) $\{-72\}$ D) $\{2\}$

15) $-\frac{1}{8}x = 4$ 15) _____

A) $\{-5\}$ B) $\{-32\}$ C) $\{-4\}$ D) $\{-1\}$

16) $\frac{x}{3} + \frac{6}{3} = \frac{x}{6} + \frac{8}{6}$ 16) _____

A) $\{4\}$ B) $\{-12\}$ C) $\{3\}$ D) $\{-4\}$

Solve the problem.

17) In one state, speeding fines are determined by the formula $F = 6(x - 60) + 75$, where F is the cost, in dollars, of the fine if a person is caught driving x miles per hour. If the fine comes to $171, how fast was the person driving? 17) _____

A) 76 mph B) 78 mph C) 86 mph D) 74 mph

Solve the formula for the specified variable.

18) $I = \frac{P - 2w}{2}$ for w 18) _____

A) $w = \frac{P - 2I}{2}$ B) $w = 2P - 4I$ C) $w = \frac{P + 2I}{2}$ D) $w = \frac{2}{P - 2I}$

Solve the problem.

19) 0.5 is what percent of 5 ? 19) _____

A) 10% B) 0.1% C) 250% D) 2.5%

20) What is 4% of 50? 20) _____

A) 0.2 B) 200 C) 2 D) 20

21) A promotional deal for long distance phone service charges a $15 basic fee plus $0.05 per minute for all calls. If Joe's phone bill was $71 under this promotional deal, how many minutes of phone calls did he make? Round to the nearest integer, if necessary. 21) _____

A) 1720 min B) 1120 min C) 3 min D) 11 min

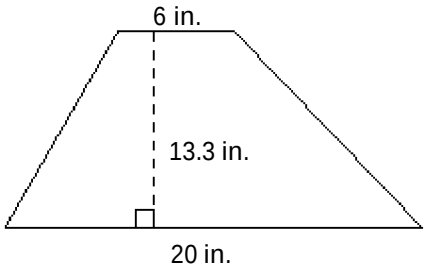
22) Sales at a local ice cream shop went up 20% in 5 years. If 46,000 ice cream cones were sold in the current year, find the number of ice cream cones sold 5 years ago. (Round to the nearest integer, if necessary.) 22) _____

A) 230,000 ice cream cones B) 9200 ice cream cones

C) 38,333 ice cream cones D) 36,800 ice cream cones

Find the area of the figure.

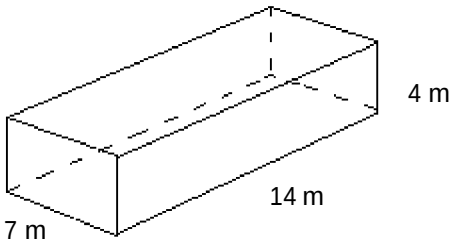
23) 23) _____



A) 79.8 $in.^2$ B) 266 $in.^2$ C) 172.9 $in.^2$ D) 345.8 $in.^2$

Find the volume of the figure. Where applicable, express answers in terms of π.

24) 24) _____



A) 196 m^3 B) 224 m^3 C) 1372 m^3 D) 392 m^3

Solve the problem.

25) What will it cost to cover a rectangular floor measuring 40 feet by 80 feet with square tiles that measure 2 feet on each side if a box of 10 tiles costs $11 per box? 25) _____

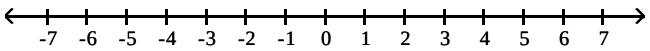
A) $440 B) $880 C) $40 D) $1760

26) How many degrees are there in an angle that measures 32° more than the measure of its compliment? 26) _____

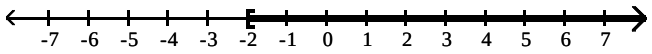
A) 29° B) 74° C) 61° D) 106°

Express the solution set of the inequality in interval notation and graph the interval.

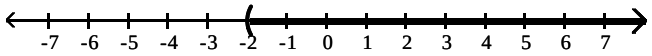
27) $x \leq -2$ 27) _____



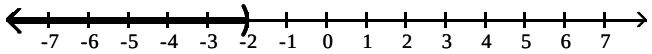
A) $[-2, \infty)$



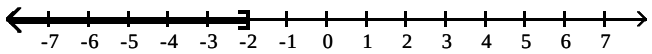
B) $(-2, \infty)$



C) $(-\infty, -2)$

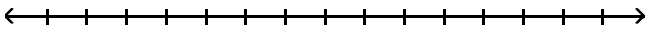


D) $(-\infty, -2]$

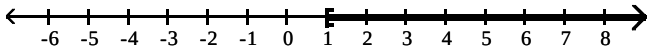


Solve the inequality and graph the solution set on a number line.

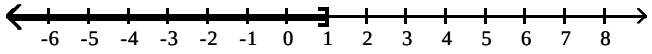
28) $10 - 2x \geq -12$ 28) _____



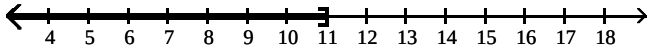
A) $[1, \infty)$



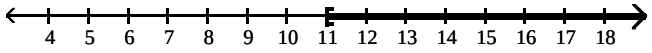
B) $(-\infty, 1]$



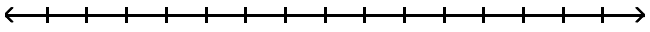
C) $(-\infty, 11]$



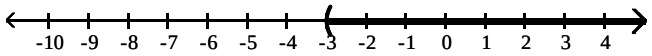
D) $[11, \infty)$



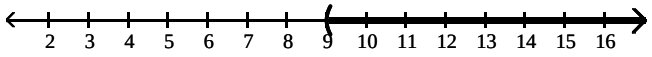
29) $5x + 3 < 6(x - 1)$ 29) _____



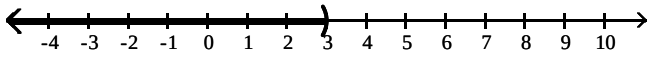
A) $(-3, \infty)$



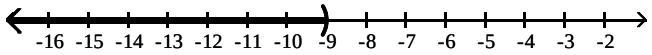
B) $(9, \infty)$



C) $(-\infty, 3)$



D) $(-\infty, -9)$



Solve the problem.

30) The length of a rectangle is 24 feet. For what widths is the perimeter less than 62 feet? 30) _____

A) widths less than 38 ft
B) widths less than 19 ft
C) widths less than 14 ft
D) widths less than 7 ft

Determine whether the ordered pair is a solution of the given equation.

31) (4, 2) 31) _____

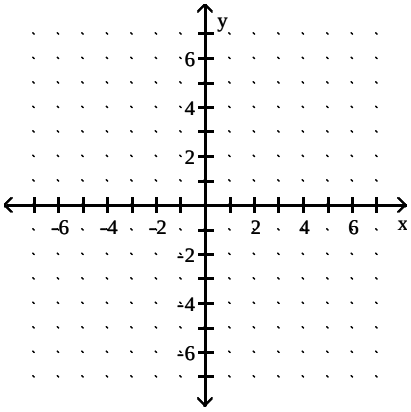
$3x + 4y = 20$

A) Yes
B) No

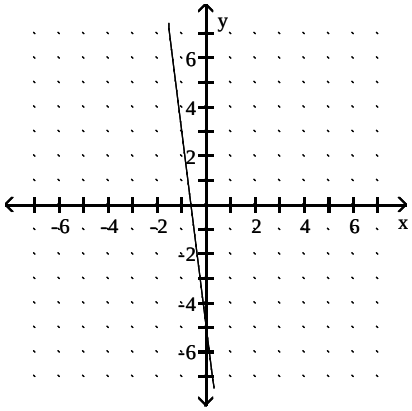
Graph the linear equation in two variables.

32) y = -8x + 5

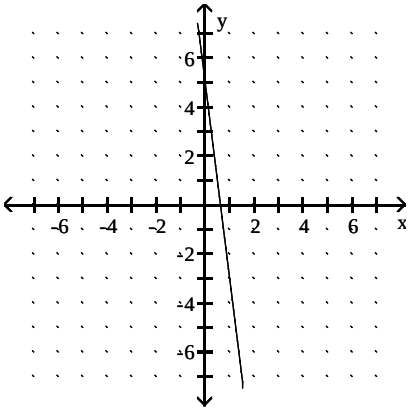
32) _____



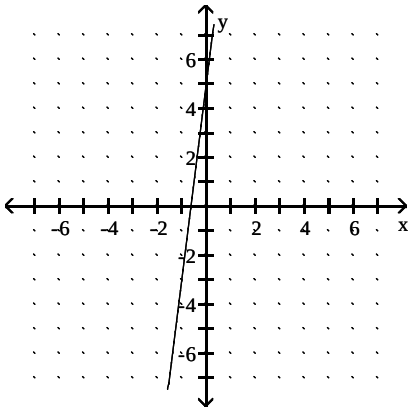
A)



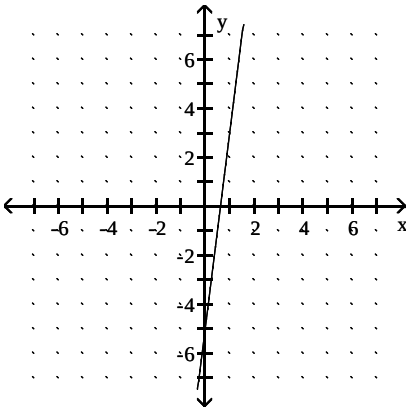
B)



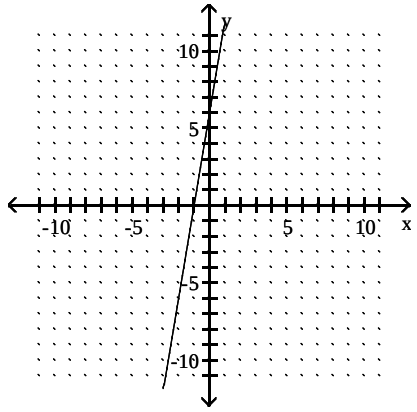
C)



D)



Use the graph to identify the x- and y- intercepts or state that there is no x- or y-intercept.

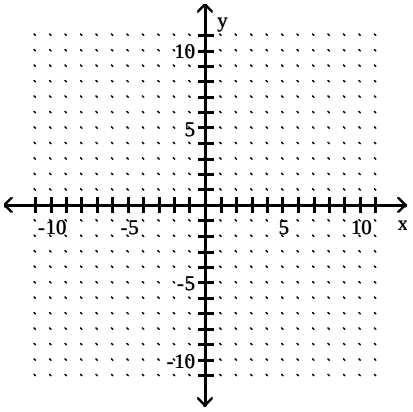
33) 

33) _____

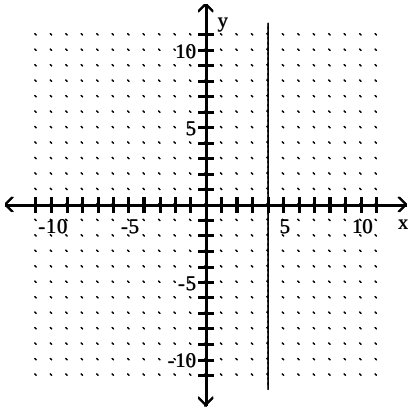
A) x-intercept = -6; y-intercept = -6
B) x-intercept = -1; y-intercept = 6
C) x-intercept = 1; y-intercept = 6
D) x-intercept = -1; y-intercept = -6

Graph the linear equation.

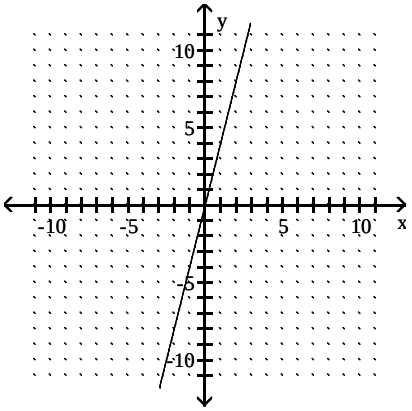
34) $y = 4$ 34) _____



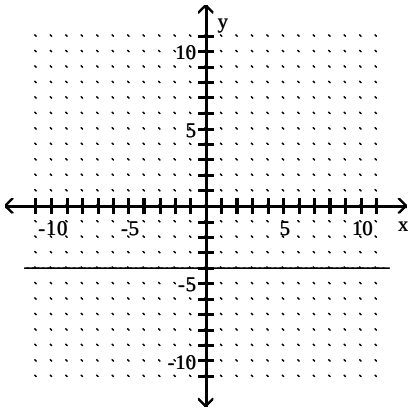
A)



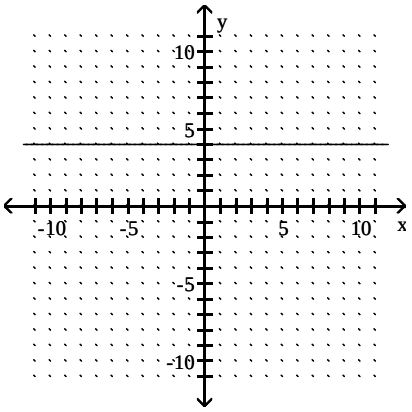
B)



C)



D)



Find the slope of the line passing through the pair of points or state that the slope is undefined.

35) (-5, -3) and (-5, -1) 35) _____

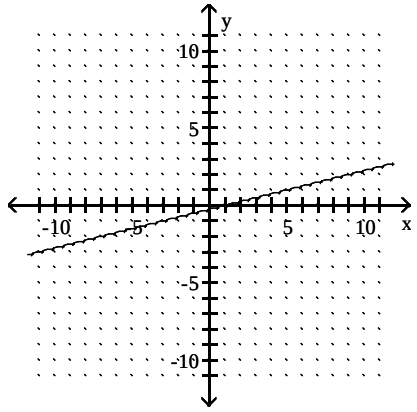
A) $\frac{1}{5}$ B) 0 C) $\frac{2}{5}$ D) undefined

36) (3, -3) and (-2, 9) 36) _____

A) $-\frac{12}{5}$ B) $-\frac{5}{12}$ C) $\frac{12}{5}$ D) 6

Find the slope of the line, or state that the slope is undefined.

37) 37) _____



A) -4 B) $-\frac{1}{4}$ C) $\frac{1}{4}$ D) 4

Determine whether the lines through each pair of points are parallel, perpendicular, or neither.

38) (-10, 10) and (-24, 4); (6, 7) and (-1, 4) 38) _____

A) neither B) parallel C) perpendicular

39) (10, -7) and (-2, -13); (-2, -8) and (1, -14) 39) _____

A) parallel B) perpendicular C) neither

Find the slope and the y-intercept of the line with the given equation.

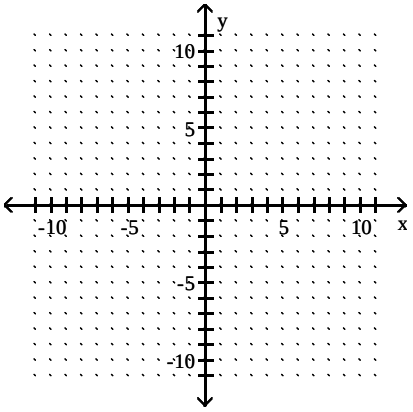
40) $8x + y = 6$ 40) _____

A) $m = -\frac{1}{8}$; y-intercept $= \frac{3}{4}$ B) $m = \frac{4}{3}$; y-intercept $= \frac{1}{6}$

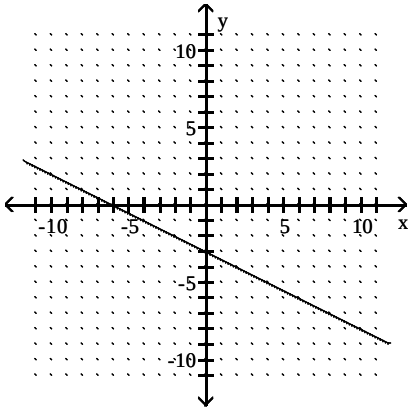
C) $m = -8$; y-intercept $= 6$ D) $m = 8$; y-intercept $= 6$

Graph the linear equation using the slope and y-intercept.

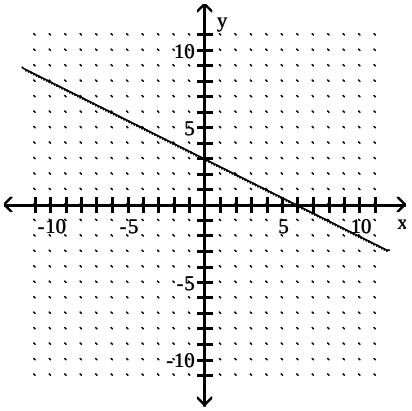
41) $y = 2x + 3$ 41) _____



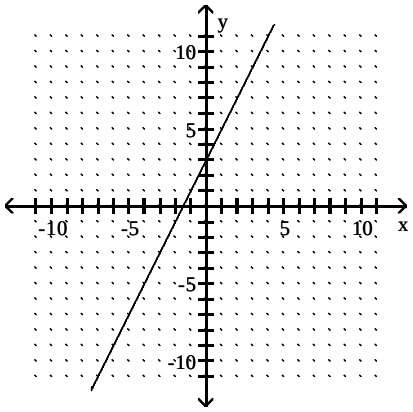
A)



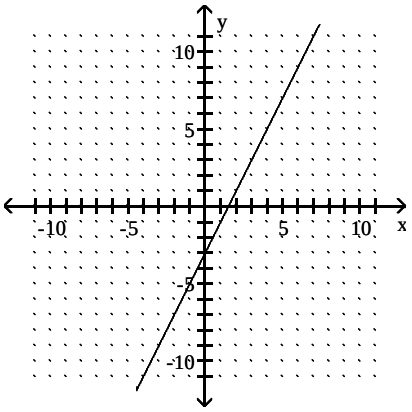
B)



C)



D)



Use the given conditions to write an equation for the line in point-slope form and slope intercept form.

42) Passing through (3, -7) and (1, -3) 42) _____

A) $y + 7 = -2(x - 3)$ or $y + 3 = -2(x - 1)$; $y = -2x + 1$

B) $y + 7 = 2(x - 3)$ or $y + 3 = 2(x - 1)$; $y = 2x - 1$

C) $y + 7 = 2(x - 3)$ or $y + 3 = 2(x - 1)$; $y = 2x + 1$

D) $y + 7 = -2(x - 3)$ or $y + 3 = -2(x - 1)$; $y = -2x - 1$

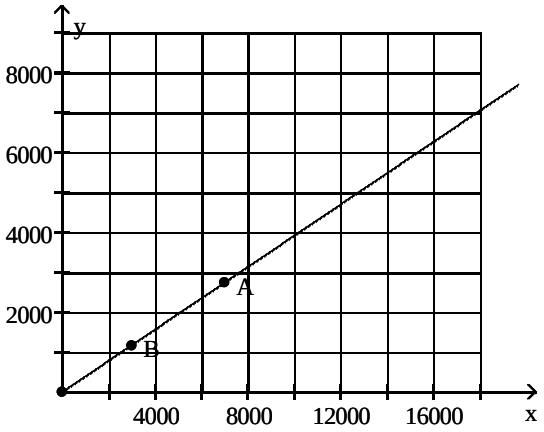
Use the given conditions to write an equation for the line in slope-intercept form.

43) Passing through (4, 2) and perpendicular to the line whose equation is $y = 8x + 9$. 43) _____

A) $y = -\frac{1}{8}x - \frac{5}{2}$ B) $y = -8x - 20$ C) $y = \frac{1}{8}x - \frac{5}{2}$ D) $y = -\frac{1}{8}x + \frac{5}{2}$

Solve the problem.

44) The graph shows the total cost y (in dollars) of owning and operating a mini-van where x is the number of miles driven. 44) _____



A: (7000, 2739.1)
B: (3000, 1173.9)

Find the slope of the line passing through the two points shown and use your answer to complete this statement:
For the range of miles shown, the cost of owning and operating a mini-van increases by approximately _____ per _____ driven.

A) $0.39 per mile B) $0.25 per mile C) $2.56 per mile D) $32.00 per mile

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

45) (-2, -2) 45) _____

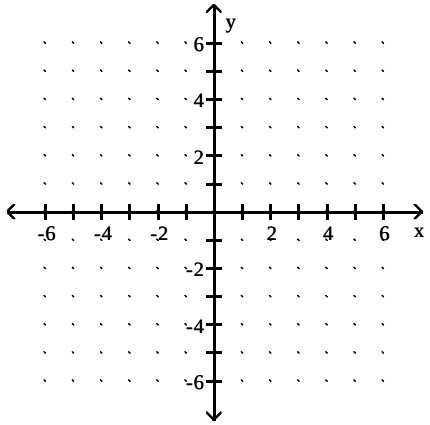
2x + y = -2
4x + 2y = -4

A) not a solution B) solution

Solve the system by graphing. If there is no solution or an infinite number of solutions, so state.

46) 3x + y = -6 46) _____

4x + 5y = 14



A) {(4, 6)} B) {(-4, 6)} C) {(0, -6)} D) {(-4, -5)}

Solve the system by the substitution method. If there is no solution or an infinite number of solutions, so state.

47) y = 2x - 3 47) _____

2x + y = 17

A) {(7, 3)} B) {(7, 5)} C) {(5, 7)} D) {(4, 5)}

Solve the system by the addition method. If there is no solution or an infinite number of solutions, so state.

48) $7x + 4y = 1$
$-4x - 2y = 2$ 48) _____
A) {(-5, 10)} B) {(-6, 10)} C) {(-5, 9)} D) no solution; ∅

49) $-6x - 3y = -4$
$-12x - 6y = -8$ 49) _____
A) no solution; ∅
B) {(12, 24)}
C) {(24, 12)}
D) infinitely many solutions; {(x, y)| $-6x - 3y = -4$} or {(x, y)| $-12x - 6y = -8$}

Solve the problem.

50) Jamil always throws loose change into a pencil holder on his desk and takes it out every two weeks. This time it is all nickels and dimes. There are 7 times as many dimes as nickels, and the value of the dimes is $3.25 more than the value of the nickels. How many nickels and dimes does Jamil have? 50) _____
A) 5 nickels and 35 dimes B) 6 nickels and 42 dimes
C) 35 nickels and 5 dimes D) 4 nickels and 28 dimes

51) A retired couple has $170,000 to invest to obtain annual income. They want some of it invested in safe Certificates of Deposit yielding 7%. The rest they want to invest in AA bonds yielding 12% per year. How much should they invest in each to realize exactly $17,900 per year? 51) _____
A) $120,000 at 12% and $50,000 at 7% B) $130,000 at 12% and $40,000 at 7%
C) $120,000 at 7% and $50,000 at 12% D) $110,000 at 7% and $60,000 at 12%

52) On a buying trip in Los Angeles, Rosaria Perez ordered 120 pieces of jewelry: a number of bracelets at $8 each and a number of necklaces at $11 each. She wrote a check for $1200 to pay for the order. How many bracelets and how many necklaces did Rosaria purchase? 52) _____
A) 40 bracelets and 80 necklaces B) 35 bracelets and 85 necklaces
C) 45 bracelets and 75 necklaces D) 50 bracelets and 70 necklaces

53) Julie and Eric row their boat (at a constant speed) 35 miles downstream for 5 hours, helped by the current. Rowing at the same rate, the trip back against the current takes 7 hours. Find the rate of the current. 53) _____
A) 1 mph B) 0.5 mph C) 2 mph D) 6 mph

Provide an appropriate response.

54) Identify $-9x - 6x^5 - 4$ as a monomial, binomial, or trinomial. Give the degree of the polynomial. 54) _____
A) Trinomial, degree 7 B) Binomial, degree 6
C) Trinomial, degree 5 D) Trinomial, degree 6

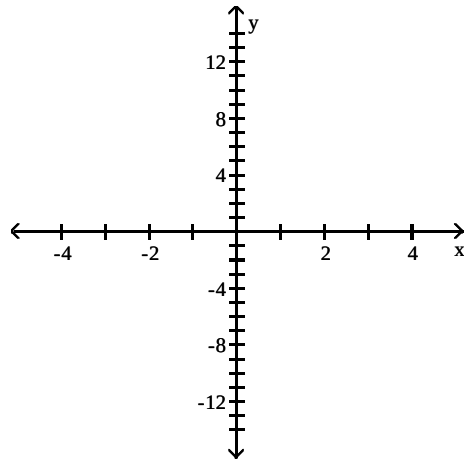
Add or subtract as indicated.

55) $(7x^3 - 8x^2 + 6x - 2) - (5x^3 + 2x^2 - 2x - 4)$ 55) _____
A) $12x^3 - 6x^2 + 4x - 6$ B) $2x^3 - 6x^2 + 4x - 6$
C) $2x^3 - 10x^2 + 8x + 2$ D) $12x^3 - 6x^2 + 4x + 2$

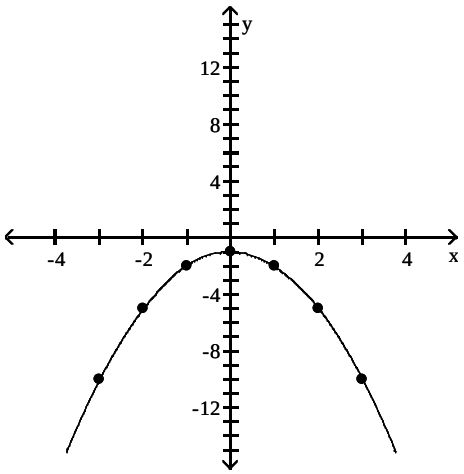
Graph the equation. Select integers for x, starting with -3 and ending with 3.

56) $y = x^2 - 1$ 56) _____

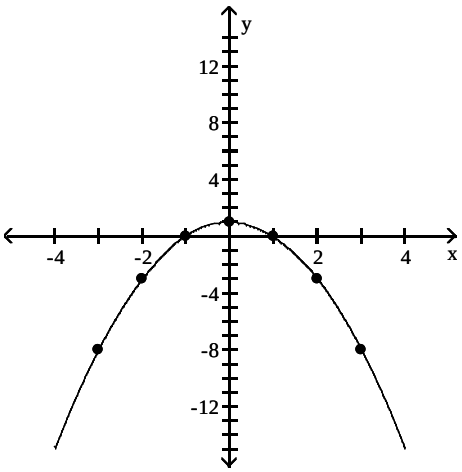
x	$x^2 - 1$
-3	
-2	
-1	
0	
1	
2	
3	



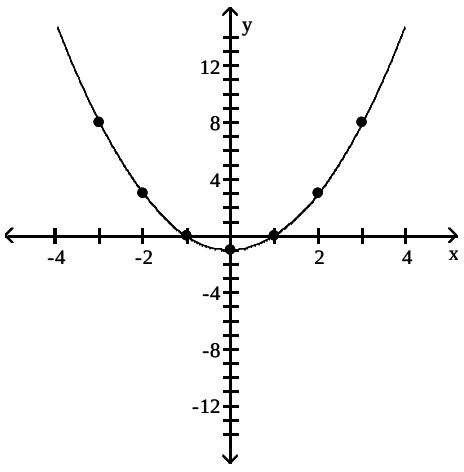
A)



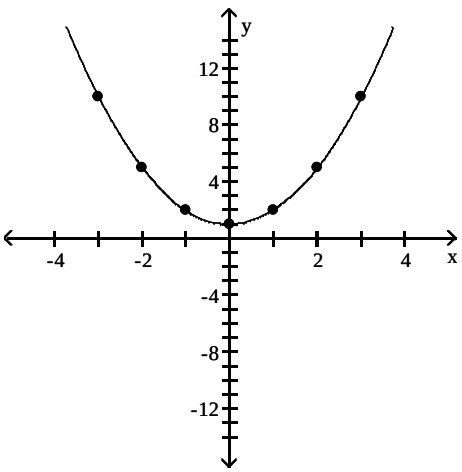
B)



C)



D)



Find the product.

57) $-11x^6(2x^3 - 8x^2 + 8)$ 57) _____

A) $-22x^3 + 88x^2 - 88$

B) $-22x^9 - 8x^2 + 8$

C) $-22x^9 + 88x^8 - 88x^6$

D) $-22x^9 + 88x^8$

58) $(8x - 1)(x^2 - 5x + 1)$ 58) _____

A) $8x^3 - 39x^2 + 3x - 1$ B) $8x^3 - 40x^2 + 8x + 1$

C) $8x^3 - 41x^2 + 13x - 1$ D) $8x^3 + 41x^2 - 13x + 1$

59) $(5x + 13)(5x - 13)$ 59) _____

A) $25x^2 - 130x - 169$ B) $25x^2 - 169$

C) $25x^2 + 130x - 169$ D) $x^2 - 169$

60) $(x^2 + 16)^2$ 60) _____

A) $x^4 + 256$ B) $256x^4 + 32x^2 + 256$

C) $x^4 + 32x^2 + 256$ D) $x^2 + 256$

Provide an appropriate response.

61) Evaluate $5x^2y + 3xy - 6y$ for $x = 4$ and $y = 5$. 61) _____

A) 536 B) 460 C) 436 D) 430

Perform the indicated operations.

62) $(8x^2y^3 - xy - y^2) + (x^2y^3 + 12xy + 5y^2)$ 62) _____

A) $8x^2y^3 + 12xy + 5y^2$ B) $7x^2y^3 - 13xy - 6y^2$

C) $9x^2y^3 + 11xy + 4y^2$ D) $9x^2y^3 + 13xy + 6y^2$

63) $(4x + 9y)^2$ 63) _____

A) $16x^2 + 81y^2$ B) $4x^2 + 72xy + 81y^2$

C) $4x^2 + 81y^2$ D) $16x^2 + 72xy + 81y^2$

Divide and check the answer.

64) $\dfrac{21x^7 - 35x^3 + 7x^2}{7x}$ 64) _____

A) $3x^6 - 5x^2 + x$ B) $3x^7 - 5x^3 + x^2$ C) $3x^8 - 5x^4 + x$ D) $21x^6 - 35x^2 + 1$

65) $\dfrac{12x^3 - 27x^2 + 7x + 27}{4x - 5}$ 65) _____

A) $3x^2 - 3x - 2$ B) $3x^2 - 3x - 2 + \dfrac{20}{4x - 5}$

C) $3x^2 - 3x - 2 + \dfrac{17}{4x - 5}$ D) $x^2 - 2 + \dfrac{-3}{4x - 5}$

Provide an appropriate response.

66) Divide using synthetic division: 66) _____

$(3x^3 - 1x^2 - 13x + 6) \div (x - 2)$.

A) $\frac{3}{2}x^2 - \frac{1}{2}x - \frac{13}{2}$ B) $3x - 5$ C) $-3x^2 + 2x - 3$ D) $3x^2 + 5x - 3$

Write the expression with positive exponents only. Then simplify, if possible.

67) $\frac{1}{4^{-4}}$ 67) _____

A) $\frac{1}{256}$ B) 1 C) $\frac{1}{-16}$ D) 256

Simplify the expression.

68) $\frac{(4y^2)^3}{y^{15}}$ 68) _____

A) $\frac{64}{y^9}$ B) $\frac{64}{y^{21}}$ C) $\frac{64}{y^{10}}$ D) $\frac{4}{y^9}$

69) $(3x^{-2})^{-4}$ 69) _____

A) $\frac{x^8}{81}$ B) $3x^8$ C) $\frac{81}{x^8}$ D) $\frac{1}{81x^8}$

70) $\left(\frac{x^5}{x^2}\right)^{-4}$ 70) _____

A) $\frac{1}{x^{12}}$ B) $\frac{1}{x^{28}}$ C) x^{12} D) x^{28}

Provide an appropriate response.

71) Write 4.68×10^{-4} in decimal notation. 71) _____

A) 0.0000468 B) 0.00468 C) -468,000 D) 0.000468

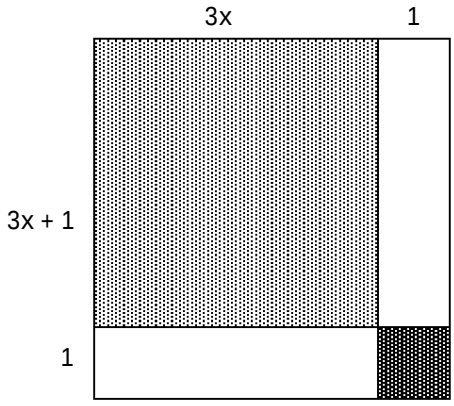
Perform the indicated computation. Write the answer in scientific notation.

72) $(5.3 \times 10^{-4})(7 \times 10^{-1})$ 72) _____

A) 3.71×10^{-6} B) 3.71×10^{-5} C) 3.71×10^{-4} D) 37.1×10^{-5}

Provide an appropriate response.

73) Write a polynomial in descending powers of x that represents the area of the entire figure. 73) _____



A) 12x + 6 B) $36x^2 + 36x + 8$ C) $9x^2 + 6x + 3$ D) $9x^2 + 9x + 2$

Factor completely, or state that the polynomial is prime.

74) $x^2 + 5x + 4$ 74) _____

A) $(x - 1)(x + 1)$ B) $(x + 1)(x + 4)$ C) $(x - 1)(x + 4)$ D) prime

75) $x^2 + 6xy + 9y^2$ 75) _____

A) prime B) $(x - 3y)^2$ C) $(x + 3y)(x - 3y)$ D) $(x + 3y)^2$

76) $x^3 - x^2 + 6x - 6$ 76) _____

A) $(x^2 + 6)(x - 1)$ B) $(x^2 - 6)(x - 1)$ C) $(x^2 + 6)(6x - 1)$ D) $(x^2 - 1)(x + 6)$

77) $x^3 - x^2 - 56x$ 77) _____

A) prime B) $(x^2 + 1)(x - 56)$ C) $x(x + 8)(x - 7)$ D) $x(x + 7)(x - 8)$

78) $12x^2 - 52x - 40$ 78) _____

A) prime B) $4(3x + 2)(x - 5)$ C) $(12x + 8)(x - 5)$ D) $4(3x - 2)(x + 5)$

79) $x^3 + 343$ 79) _____

A) $(x + 7)(x^2 + 49)$ B) $(x + 7)(x^2 - 7x + 49)$

C) $(x - 7)(x^2 + 7x + 49)$ D) $(x - 343)(x^2 - 1)$

80) $x^4 - 16$ 80) _____

A) $(x^2 - 4)(x^2 - 4)$ B) prime

C) $(x^2 + 4)(x + 2)(x - 2)$ D) $(x^2 + 4)(x^2 + 4)$

81) $36x^2 + 21xy + 3y^2$ 81) _____

A) $3(3x + y)(4x + y)$ B) $(9x + 3y)(4x + y)$

C) prime D) $3(3x - y)(4x - y)$

Solve the quadratic equation.

82) $x(4x + 18) = 10$ 82) _____

A) $\left\{0, \frac{9}{2}\right\}$ B) $\{2, 5\}$ C) $\left\{-\frac{9}{2}, 0\right\}$ D) $\left\{-5, \frac{1}{2}\right\}$

83) $x^2 + 4x - 21 = 0$ 83) _____

A) {3, 7} B) {-7, 1} C) {-7, 3} D) {-3, 7}

84) $x^2 - x = 42$ 84) _____

A) {6, 7} B) {-7, -6} C) {1, 42} D) {-6, 7}

85) $(x + 4)(x + 1) = 54$ 85) _____

A) {-5, 10} B) {-10, 5} C) {1, 4} D) {-4, -1}

Solve the problem.

86) The width of a rectangle is 6 kilometers less than twice its length. If its area is 176 square kilometers, find the dimensions of the rectangle. 86) _____

A) length = 11 km, width = 16 km

B) length = 3 km, width = $\frac{176}{3}$ km

C) length = 8 km, width = 10 km

D) width = 11 km, length = 16 km

Find all values that make the rational expression undefined. If the rational expression is defined for all real numbers, so state.

87) $\frac{x^2 - 4}{x^2 - 11x + 18}$ 87) _____

A) x = 0 B) x = -2, x = -9 C) x = 2, x = -2 D) x = 2, x = 9

Simplify the expression.

88) $\frac{11x^2 + 33x^3}{9x + 27x^2}$ 88) _____

A) $\frac{11}{9}$ B) $\frac{11x^2 + 33x^3}{9x + 27x^2}$ C) $\frac{11x}{9}$ D) $\frac{11 + 33x^3}{9x + 27}$

Perform the indicated operation. Simplify if possible.

89) $\frac{x - 6}{7} \cdot \frac{28}{x^2 - 36}$ 89) _____

A) 4(x + 6) B) $\frac{4}{x - 6}$ C) $\frac{4}{x + 6}$ D) $\frac{x - 6}{4}$

90) $\frac{x^2 - 10x + 25}{x^2 - 36} \cdot \frac{x^2 + 6x}{x - 5}$ 90) _____

A) $\frac{x(x - 5)}{x - 6}$ B) $\frac{x - 5}{x - 6}$ C) $\frac{x}{x + 6}$ D) $\frac{x(x - 5)}{x + 6}$

91) $\frac{x^2 - 2x}{x^2 - 4} \div \frac{x + 3}{x^2 + 5x + 6}$ 91) _____

A) $\frac{x}{(x + 2)(x + 2)}$ B) -x C) x D) $\frac{1}{x}$

92) $\frac{70x^7}{x^2 - 1} \div \frac{x^{10}}{(x + 1)^2}$ 92) _____

A) $\frac{70x^3(x + 1)}{(x - 1)}$ B) $\frac{70x^{70}}{(x - 1)(x + 1)^3}$ C) $\frac{70(x + 1)}{x^3(x - 1)}$ D) $\frac{7(x + 1)}{x^3(x - 1)}$

93) $\frac{x^2 - 7x}{x - 3} + \frac{12}{x - 3}$ 93) _____

A) $x + 4$ B) $x - 3$ C) $\frac{x^2 - 7x + 12}{x - 3}$ D) $x - 4$

94) $\frac{x^2 + x}{x^2 + 5x - 14} - \frac{x^2 + 2}{x^2 + 5x - 14}$ 94) _____

A) $\frac{1}{x + 7}$ B) $\frac{1}{2(x + 7)}$ C) $x - 2$ D) $x + 7$

Answer Key
Testname: M830FINALPRAC

1) C
2) B
3) A
4) C
5) C
6) A
7) A
8) A
9) C
10) B
11) B
12) A
13) D
14) B
15) B
16) D
17) A
18) A
19) A
20) C
21) B
22) C
23) C
24) D
25) B
26) C
27) D
28) C
29) B
30) D
31) A
32) B
33) B
34) D
35) D
36) A
37) C
38) B
39) B
40) C
41) C
42) D
43) D
44) A
45) A
46) B
47) C
48) C
49) D
50) A

51) A
52) A
53) A
54) C
55) C
56) C
57) C
58) C
59) B
60) C
61) D
62) C
63) D
64) A
65) C
66) D
67) D
68) A
69) A
70) A
71) D
72) C
73) D
74) B
75) D
76) A
77) D
78) B
79) B
80) C
81) A
82) D
83) C
84) D
85) B
86) A
87) D
88) C
89) C
90) A
91) C
92) C
93) D
94) A