Exam #1

Name_____

MATH 5TH GRADE WARMUPT1081 000000000223190

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

Write the whole number in expanded form.

1) 8354 1) _____

A) 8000 + 300 + 50 + 4 B) 800 + 50 + 3

C) 4000 + 500 + 30 + 8 D) 8,354,000

Add.

2) 30 + 400 + 70 2) _____

A) 500 B) 400 C) 50 D) 113

Subtract.

3) 3) _____

699

– 345

A) 354 B) 344 C) 254 D) 1044

4) 4) _____

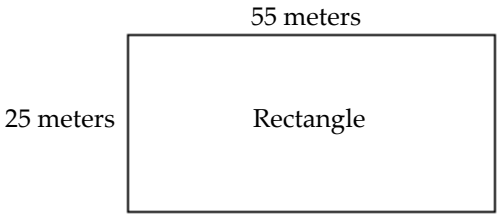
944

– 69

A) 875 B) 867 C) 775 D) 1013

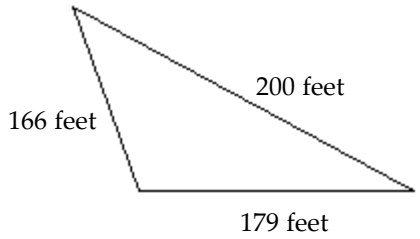
Find the perimeter.

5) 5) _____



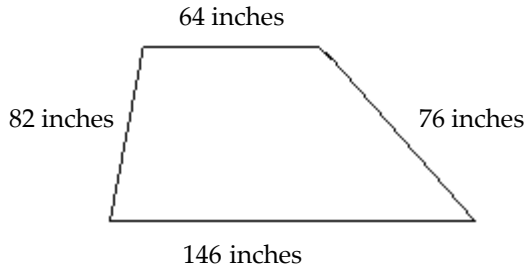
A) 160 m B) 80 m C) 1375 m D) 135 m

6) 6) _____



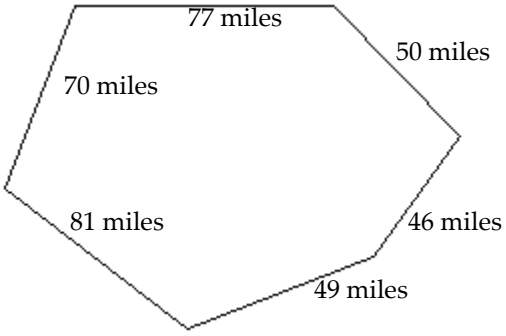
A) 545 ft B) 366 ft C) 36,166 ft D) 535 ft

7) 7) _____



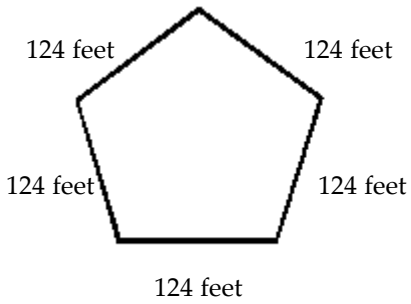
A) 368 in. B) 280 in. C) 316 in. D) 304 in.

8) 8) _____



A) 373 mi B) 303 mi C) 393 mi D) 450 mi

9) 9) _____



A) 620 ft B) 744 ft C) 635 ft D) 15,376 ft

Round the whole number to the given place.

10) 287 to the nearest ten 10) _____

A) 290 B) 300 C) 280 D) 390

11) 2042 to the nearest hundred 11) _____

A) 2000 B) 2100 C) 1900 D) 2010

12) 1699 to the nearest hundred 12) _____

A) 1700 B) 1800 C) 1600 D) 1690

13) 7143 to the nearest thousand 13) _____

A) 7000 B) 8000 C) 6900 D) 7100

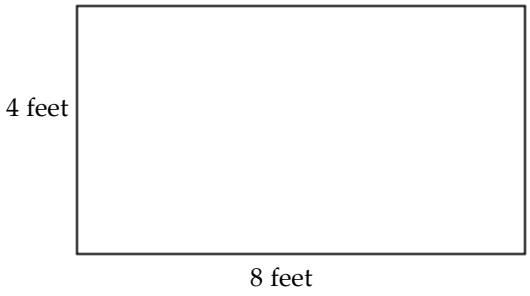
Use the distributive property to rewrite the expression.

14) $4(11 + 7)$ 14) _____

A) $4 \cdot 11 + 4 \cdot 7$ B) $4 \cdot 11 + 7$ C) $4 \cdot 11 \cdot 7$ D) $4 + 11 + 7$

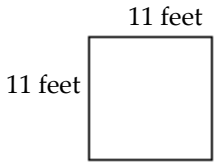
Find the area of the rectangle.

15) 15) _____



A) 32 sq ft B) 16 sq ft C) 48 sq ft D) 64 sq ft

16) 16) _____



A) 121 sq ft B) 242 sq ft C) 44 sq ft D) 22 sq ft

Divide.

17) $4\overline{)212}$ 17) _____

A) 53 B) 55 C) 56 D) 51

18) $307 \div 9$ 18) _____

A) 34 R 1 B) 34 C) 34 R 8 D) 35

Solve.

19) One ticket won a prize of $7,848,000. The winning ticket was purchased by 24 people who had pooled their money. Find how many dollars each person receives if they each receive an equal share. 19) _____

A) $327,000 B) $326,000 C) $32,700 D) $32,800

20) There is a bridge over a certain highway every 7 miles. The first bridge is at the beginning of a 179–mile stretch of highway. Find how many bridges there are over 179 miles of the highway. 20) _____

A) 26 bridges B) 25 bridges C) 25 bridges D) 29 bridges

Find the average of the list of numbers.

21) 67, 53, 36, 31, 60, 35 21) _____

A) 47 B) 48 C) 53 D) 45

Evaluate.

22) 6^2 22) _____

A) 36 B) 12 C) 64 D) 49

23) 4^3 23) _____

A) 64 B) 12 C) 65 D) 13

Simplify.

24) $9 \cdot 2 - 1$ 24) _____

A) 17 B) 19 C) 9 D) 18

25) $38 + 8 \cdot 3$ 25) _____

A) 62 B) 138 C) 14 D) 418

26) $17 \cdot 19 + 16 \cdot 12$ 26) _____

A) 515 B) 7140 C) 3587 D) 4068

27) $9 + 9 \div 3 \cdot 2 - 6$ 27) _____

A) 9 B) 6 C) 24 D) 21

28) $7^2 - 3 \cdot 5$ 28) _____

A) 34 B) 230 C) 80 D) 140

29) $(7 + 2) \cdot (14 - 4)$ 29) _____

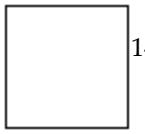
A) 90 B) 31 C) 27 D) 72

30) $\dfrac{193 + 7}{3^2 - 4}$ 30) _____

A) 40 B) 100 C) 60 D) 38

Find the area of the square.

31) 31) _____



14 centimeters

A) 196 sq cm B) 392 sq cm C) 56 sq cm D) 191 sq cm

Evaluate the expression for the given replacement values.

32) $x - 5yz$ for $x = 94$, $y = 3$, $z = 2$ 32) _____

A) 64 B) 534 C) 158 D) 84

33) $4x + 7$ for $x = 9$ 33) _____

A) 43 B) 72 C) 11 D) 29

34) $4x + 5y$ for $x = 8$ and $y = 6$ 34) _____

A) 62 B) 37 C) 34 D) 9

35) $8x^2 + 5x$ for $x = 4$ 35) _____

A) 148 B) 108 C) 84 D) 52

Solve the equation.

36) $a + 1 = 13$ 36) _____

A) 12 B) –12 C) –14 D) 14

37) $s - 4 = 19$ 37) _____

A) 23 B) –23 C) 15 D) –15

38) $6x = 54$ 38) _____

A) 9 B) 48 C) 60 D) 324

39) $x + 3 = 7$ 39) _____

A) 4 B) –4 C) –10 D) 10

40) $5 + 24 = x + 8$ 40) _____

A) 21 B) –21 C) –37 D) 37

41) $4w - 16 = 0$ 41) _____

A) 4 B) –4 C) 0 D) 16

42) $5x + 4 = 49$ 42) _____

A) 9 B) 40 C) 44 D) 5

m50–4

43) $96 = 10x - 4$ 43) _____

A) 10 B) 90 C) 94 D) 13

Multiply. Write the answer in simplest form.

44) $\frac{6}{7} \cdot \frac{2}{5}$ 44) _____

A) $\frac{12}{35}$ B) $\frac{35}{12}$ C) $\frac{7}{15}$ D) $\frac{2}{3}$

Divide and simplify.

45) $\frac{3}{13} \div \frac{6}{19}$ 45) _____

A) $\frac{19}{26}$ B) $\frac{26}{19}$ C) $\frac{9}{32}$ D) $\frac{18}{247}$

46) $\frac{7}{3} \div \frac{1}{9}$ 46) _____

A) 21 B) $\frac{7}{27}$ C) $\frac{1}{21}$ D) $\frac{27}{7}$

47) $-\frac{1}{5} \div 2$ 47) _____

A) $-\frac{1}{10}$ B) $-\frac{2}{5}$ C) $-\frac{1}{2}$ D) $-\frac{1}{5}$

48) $30 \div \frac{1}{5}$ 48) _____

A) 150 B) 6 C) $\frac{1}{150}$ D) $\frac{1}{6}$

Solve. Write the fraction in simplest form.

49) Find $\frac{1}{12}$ of 120. 49) _____

A) 10 B) 12 C) 1440 D) $\frac{1}{1440}$

Insert <, >, or = between the pair of numbers to form a true statement.

50) 0.86 _____ 0.87 50) _____

A) < B) > C) =

51) 0.661 _____ 0.66100 51) _____

A) = B) > C) <

52) 0.2 _____ 0.0865 52) _____

A) > B) < C) =

Round the decimal to the given place value.

53) 3.845, nearest hundredth 53) _____

A) 3.85 B) 3.86 C) 3.84 D) 3.845

54) 51.4, nearest ten 54) _____

A) 50 B) 51 C) 49 D) 51.4

55) 25.6339, nearest thousandth 55) _____

A) 25.634 B) 25.644 C) 25.624 D) 25.6339

Insert <, >, or = between the pair of numbers to form a true statement.

56) 0.419 _____ 0.479 56) _____

A) < B) > C) =

57) 0.688 _____ 0.687 57) _____

A) > B) < C) =

58) $\frac{32}{5}$ _____ 6.401 58) _____

A) < B) > C) =

Solve the proportion.

59) $\frac{7}{11} = \frac{x}{22}$ 59) _____

A) 14 B) 7 C) 77 D) 2

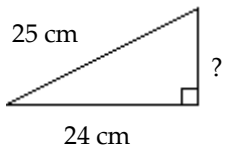
Solve.

60) The scale on a map states that 1 centimeter corresponds to 40 kilometers. On the map, two cities are 21 cm apart. Find the actual distance. 60) _____

A) 840 km B) 84 km C) 8400 km D) 84,000 km

Find the unknown length in the right triangle. If necessary, approximate the length to the nearest thousandth.

61) 61) _____

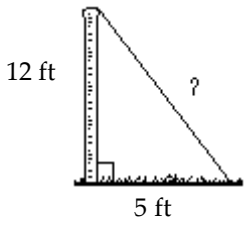


A) 7 cm B) 1 cm C) 9.322 cm D) 3.678 cm

m50–11

Solve.

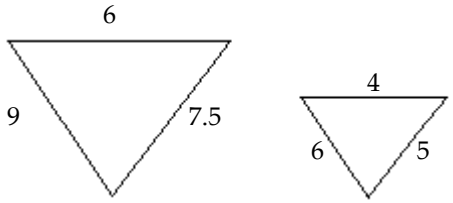
62) One end of a guy wire is attached to the top of a 12–foot pole and the other end is anchored into the ground 5 feet from the base of the pole. Find the length of the guy wire. If necessary, round to the nearest tenth foot. 62) _____



A) 13 ft B) 17 ft C) 13.7 ft D) 17.7 ft

Find the ratio of the corresponding sides of the given similar triangles.

63) 63) _____



A) $\frac{3}{2}$ B) $\frac{2}{3}$ C) $\frac{4}{5}$ D) $\frac{6}{5}$

Find the probability of the event if a single choice is made from a bag.

64) A bag contains 7 red marbles, 2 blue marbles, and 1 green marble. What is the probability of choosing a marble that is not blue when one marble is drawn from the bag? 64) _____

A) $\frac{4}{5}$ B) $\frac{5}{4}$ C) $\frac{1}{5}$ D) 8

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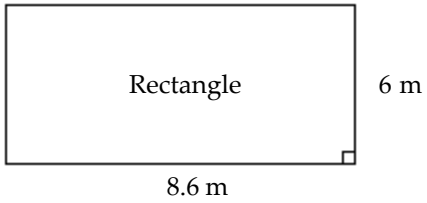
Find the area of the geometric figure.

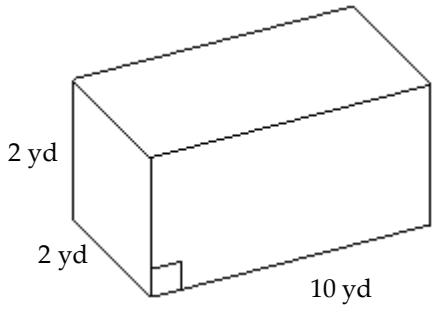
65) 65) _____



A) 51.6 sq m B) 5.16 sq m C) 14.6 sq m D) 516 sq m

Find the volume of the solid. Use $\frac{22}{7}$ for π.

66) 66) _____



A) 40 cu yd B) 20 cu yd C) 14 cu yd D) 200 cu yd

Convert the measurement as indicated.

67) 36 in. to feet 67) _____

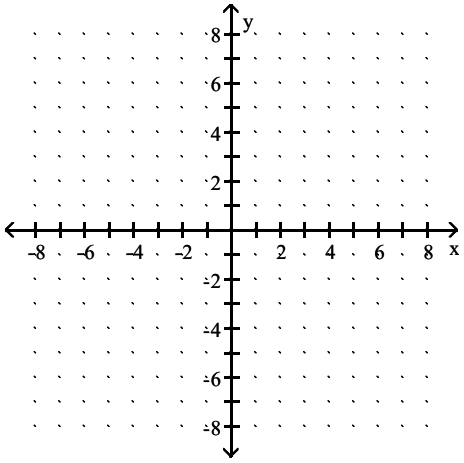
A) 3 ft B) $\frac{1}{4}$ ft C) 12 ft D) 108 ft

68) 4 ft to inches 68) _____

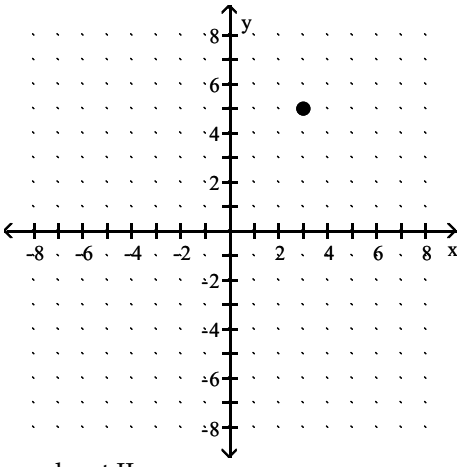
A) 48 in. B) 12 in. C) 16 in. D) 144 in.

Plot the ordered pair. State in which quadrant or on which axis the point lies.

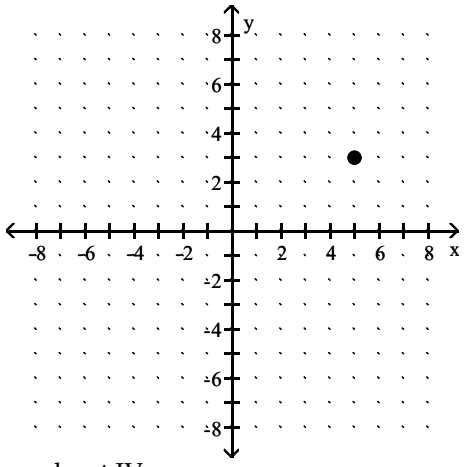
69) (3, 5) 69) _____



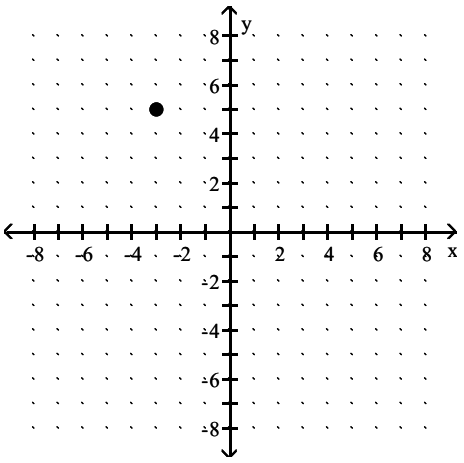
A) quadrant I



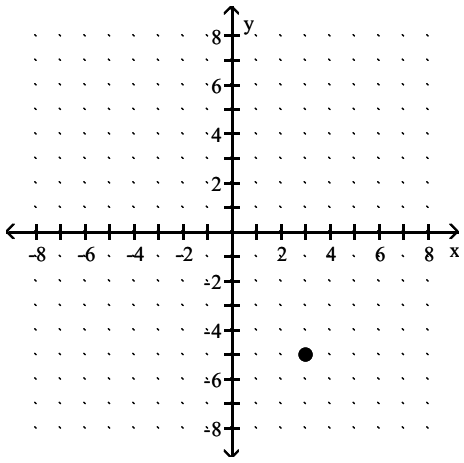
B) quadrant I



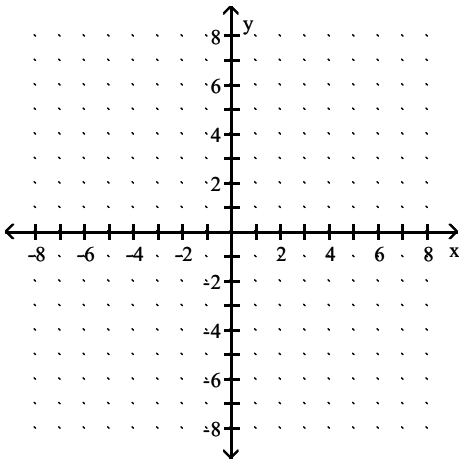
C) quadrant II



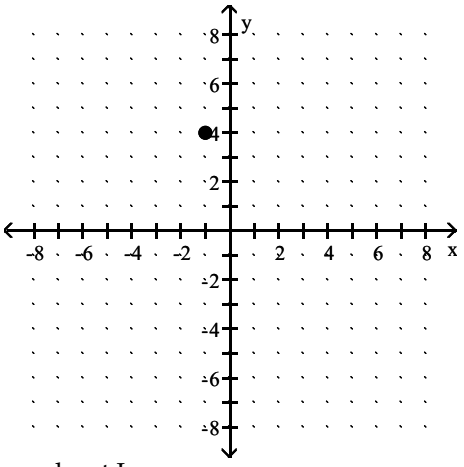
D) quadrant IV



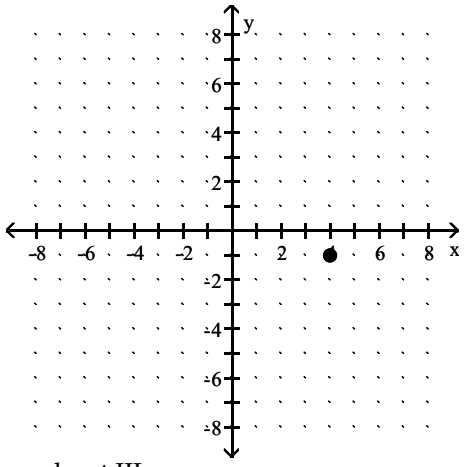
70) (–1, 4) 70) _____



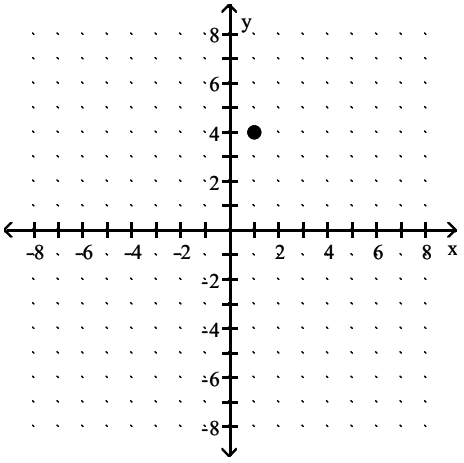
A) quadrant II



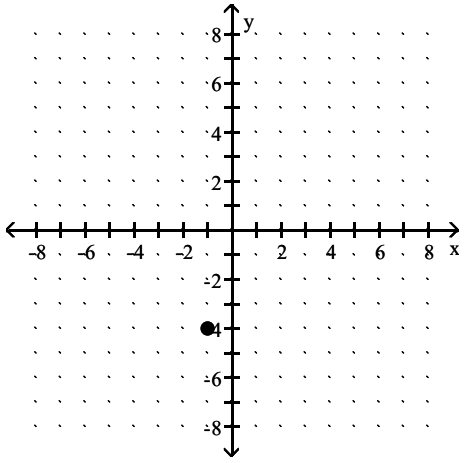
B) quadrant IV



C) quadrant I



D) quadrant III



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

71) –2y + 3x = –15; (5, 0) 71) _____

A) no B) yes

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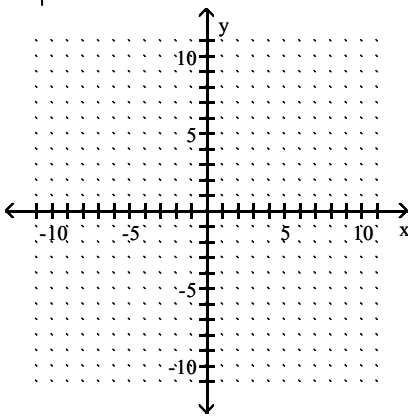
Find three ordered pair solutions by completing the table. Then use the ordered pairs to graph the equation.

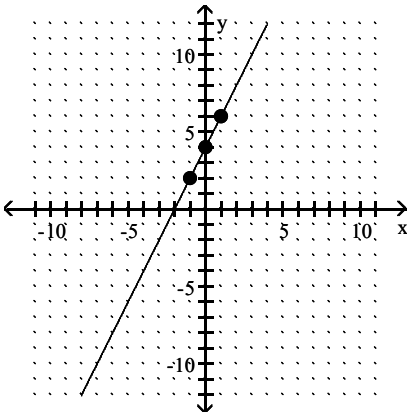
72) $y = 2x + 4$ 72) _____

x	y
0	
1	
−1	



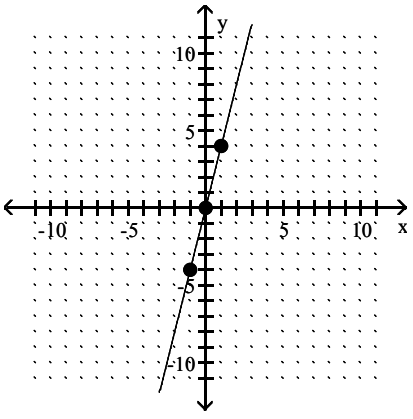
A)

x	y
0	4
1	6
−1	2



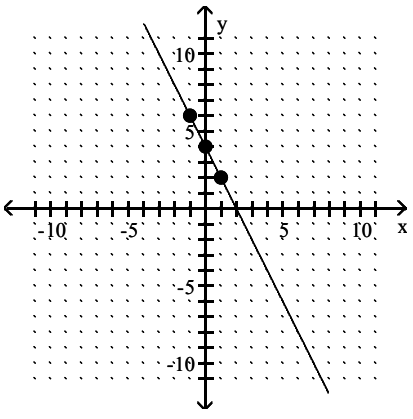
B)

x	y
0	0
1	4
−1	−4



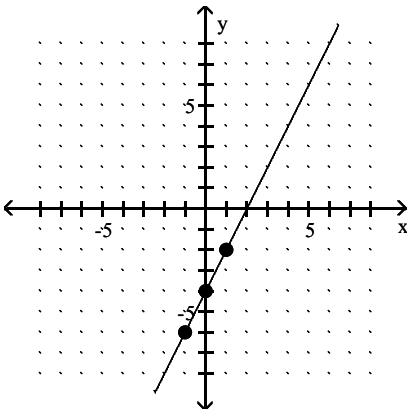
C)

x	y
0	4
1	2
−1	6



D)

x	y
0	−4
1	−2
−1	−6



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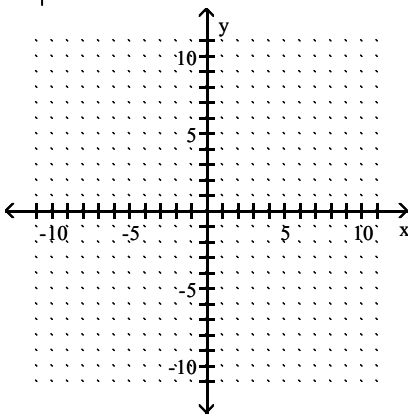
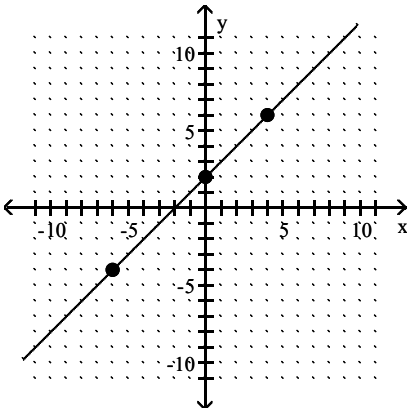
73) $y = x + 2$ 73) _____

x	y
4	
−6	
0	



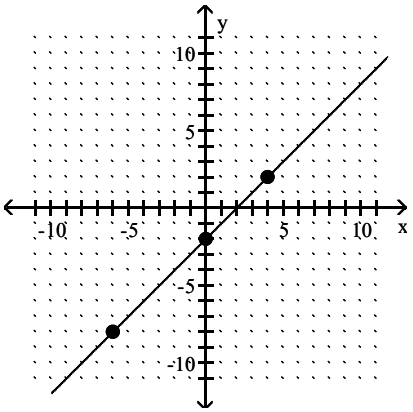
A)

x	y
4	6
−6	−4
0	2



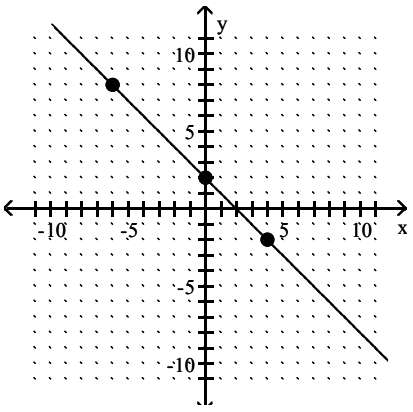
B)

x	y
4	2
−6	−8
0	−2



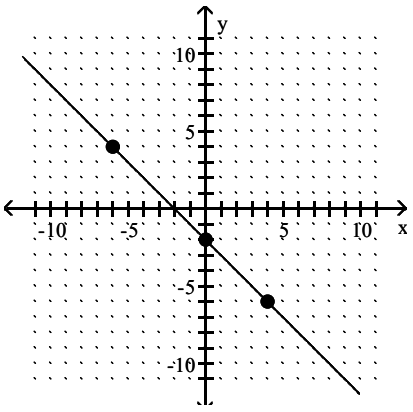
C)

x	y
4	−2
−6	8
0	2



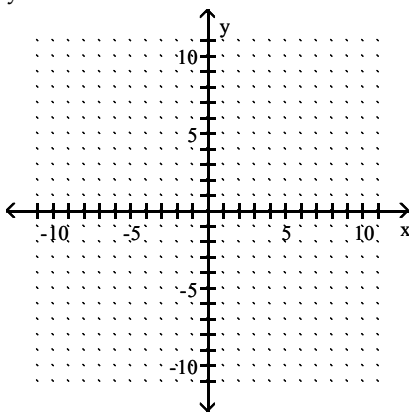
D)

x	y
4	−6
−6	4
0	−2

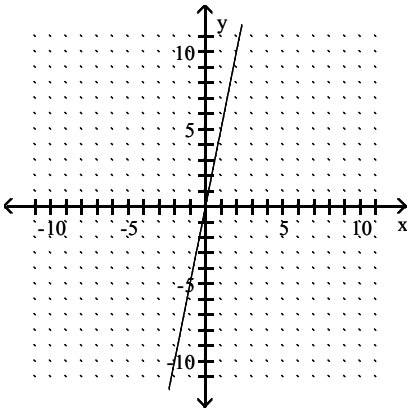


Graph the linear equation.

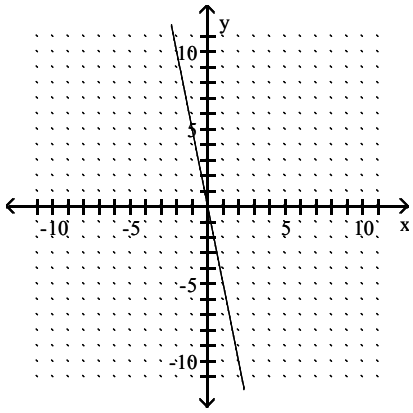
74) y = 5x 74) _____



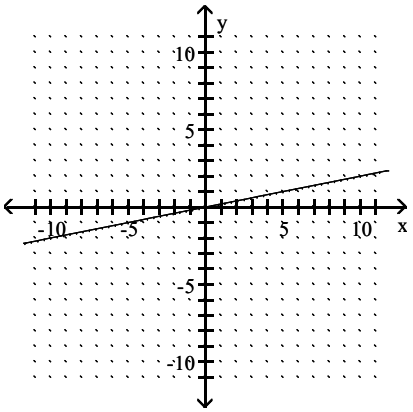
A)



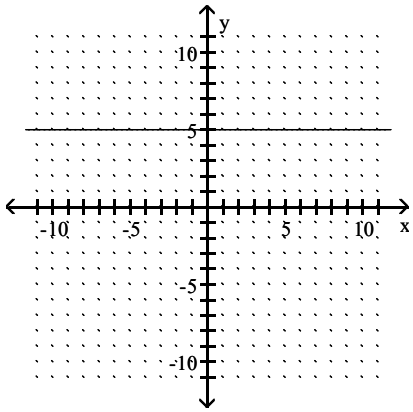
B)



C)



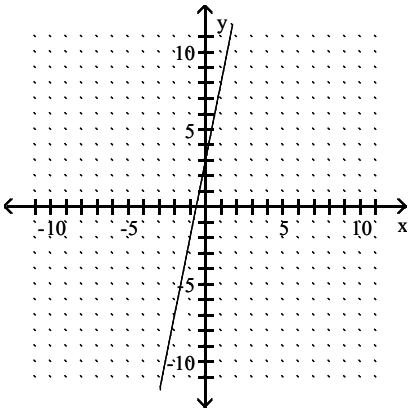
D)



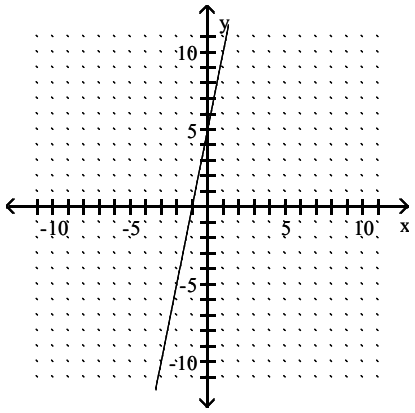
Match the graph with its equation.

75) $y = 5x + 3$ 75) _____

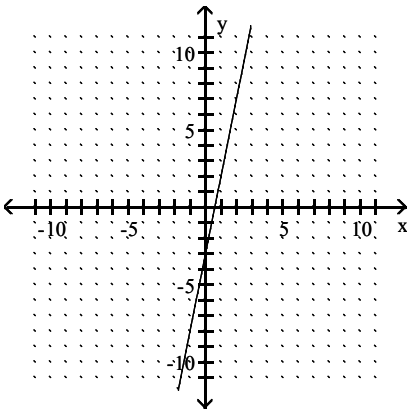
A)



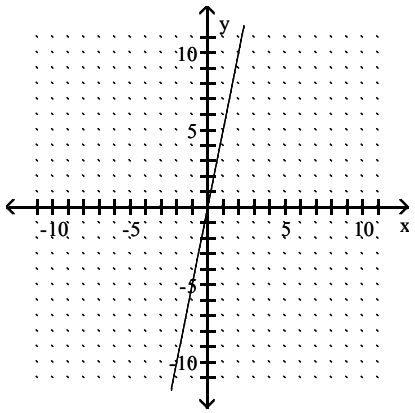
B)



C)

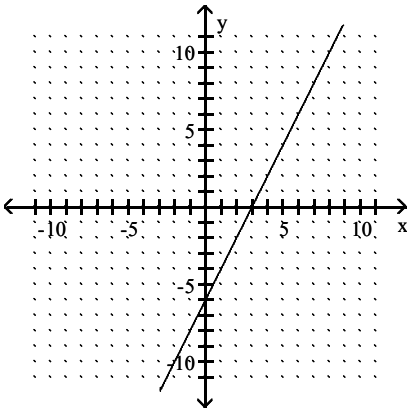


D)

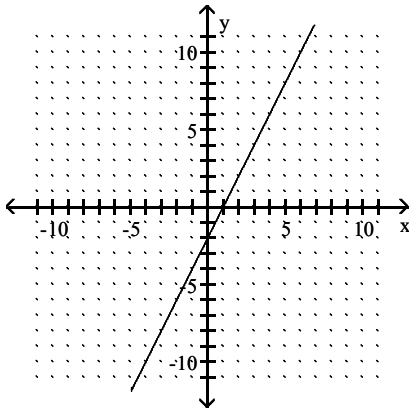


76) $y = 2x - 6$ 76) _____

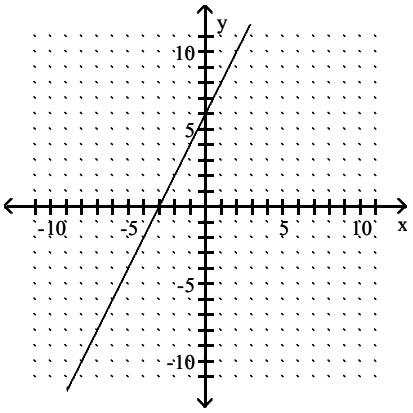
A)



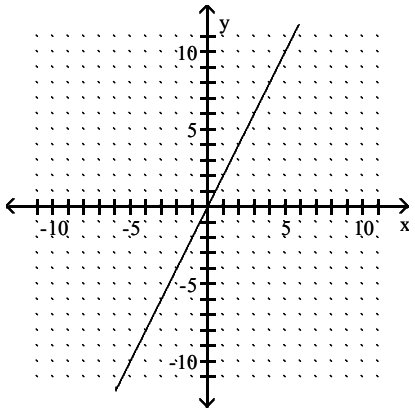
B)



C)



D)



Evaluate the function.

77) Find $f(4)$ when $f(x) = x^2 + 4x - 3$. 77) _____

A) 29 B) 35 C) 3 D) –3

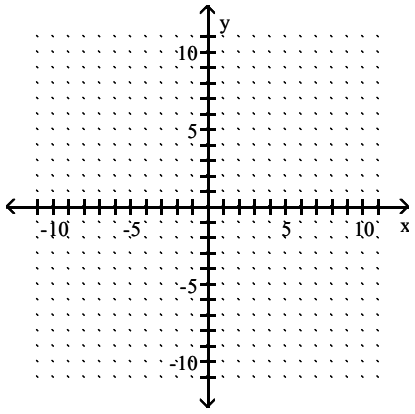
m50–25

78) Find $f(0)$ when $f(x) = x^2 + 4x + 4$. 78) _____

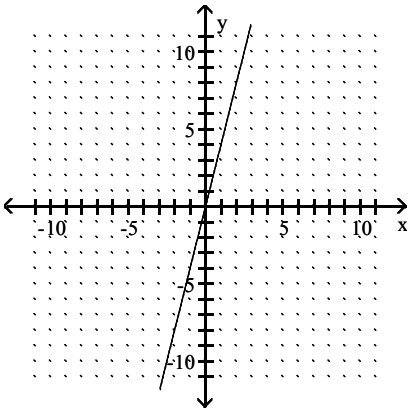
A) 4 B) –4 C) 0 D) 16

Graph the linear function.

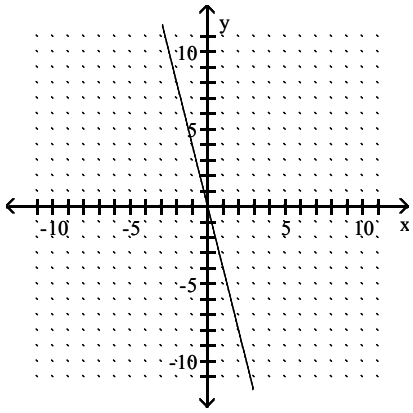
79) f(x) = 4x 79) _____



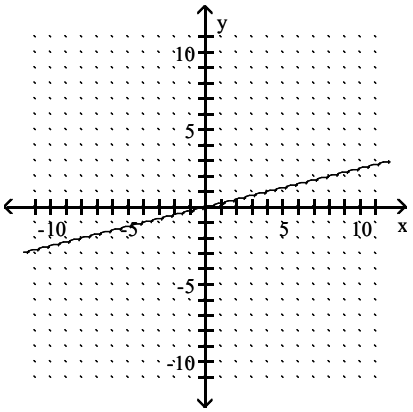
A)



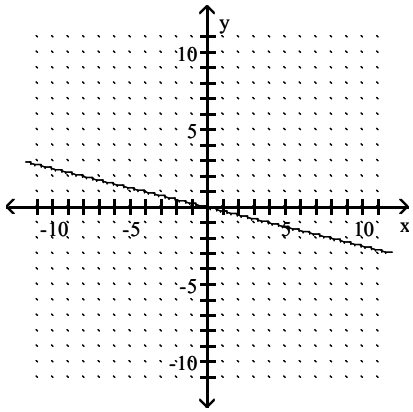
B)



C)



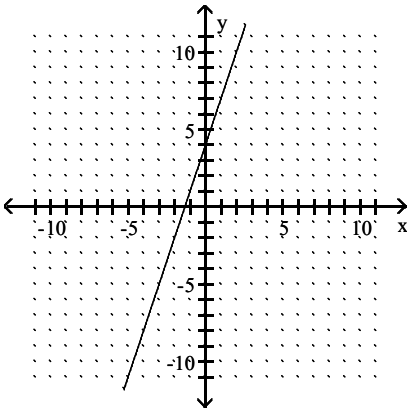
D)



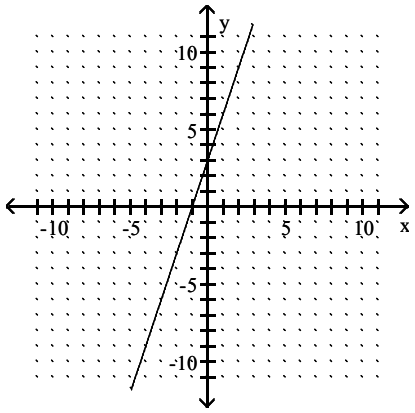
Match the linear function with its graph.

80) $f(x) = 3x + 4$ 80) _____

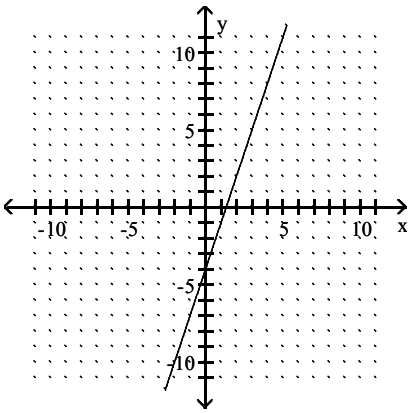
A)



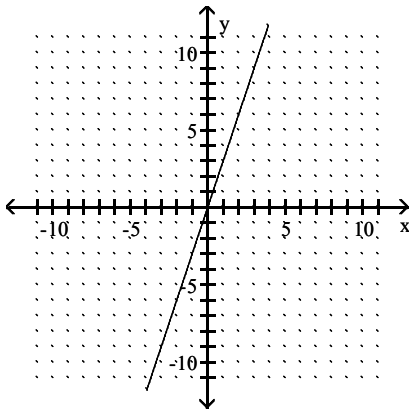
B)



C)



D)



Find the square root.

81) $\sqrt{25}$ 81) _____

A) 5 B) 10 C) 2.5 D) 20

Answer Key
Testname: AAFMATH5THWARMUPT1081

1) A
2) A
3) A
4) A
5) A
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80) A
81) A