Exam #1 a w

Name_____

math0410 Exam #1 04041700aafm041024350m

www.alvarezmathhelp.com

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Simplify.

1) $\frac{193 + 7}{3^2 - 4}$ 1) _____

m50–1

Solve the equation.

2) $f + 1 = -2$ 2) _____

m50–2

Simplify the expression.

3) $2(4x + 2) + 3(x + 4)$ 3) _____

m50–3

Solve the equation.

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

m50–4

5) $2(5x - 2) = 8x$ 5) _____

m50–5

6) $5x - 6 = 2x - 30$ 6) _____

m50–6

Solve.

7) $\frac{x}{5} = \frac{x}{6} + \frac{2}{5}$ 7) _____

m50–7

Solve the equation.

8) $1.1x + 4.3 = 0.7x + 1.14$ 8) _____

m50–8

Find the median. If necessary, round to one decimal place.

9) 4, 6, 25, 23, 43, 47 9) _____

m50–9

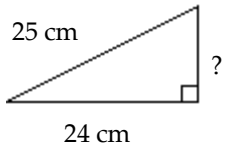
Translate to an equation and solve.

10) 19 is 4% of what number? 10) _____

m50–10

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

11) 11) _____



m50–11

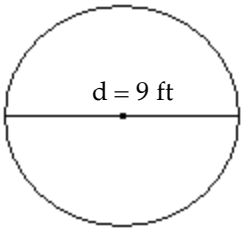
Find the probability of the event if a single choice is made from a bag.

12) 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? 12) _____

m5012

Find the area of the geometric figure.

13) 13) _____



Use 3.14 for π.

m50–13

Solve the equation.

14) $8x - (4x - 1) = 2$ 14) _____

m50–14

15) $\frac{5}{6}x + \frac{4}{3} = \frac{2}{3}x$ 15) _____

m50–15

16) $9x + 5 - 9x - 5 = 6x - 6x - 3$ 16) _____

m50–16

17) $2(x + 5) = (2x + 10)$ 17) _____

m50–17

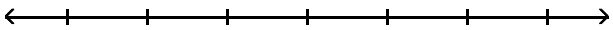
Solve the equation for the indicated variable.

18) $A = P + PRT$ for T 18) _____

m50–18

Solve the inequality. Graph the solution set and write it in interval notation.

19) $21x + 9 > 3(6x + 4)$ 19) _____



m50–19

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

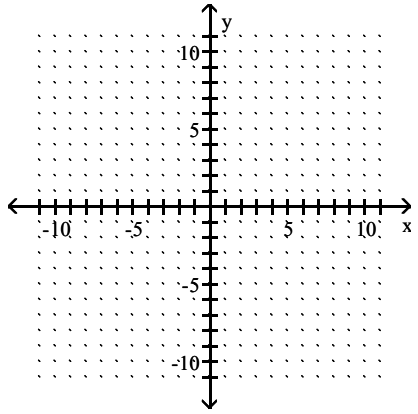
20) $-2y + 3x = -15$; (5, 0) 20) _____

m50–20

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

21) $y = 2x + 4$ 21) _____

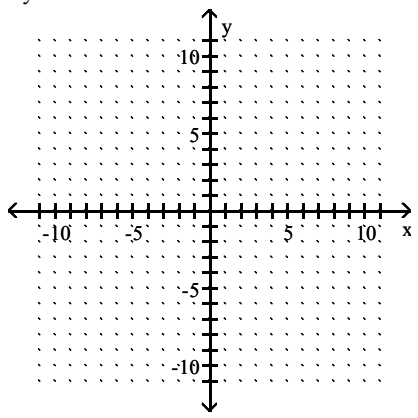
x	y
0	
1	
–1	



m50–21

Graph the linear equation.

22) $5y - 25x = 10$ 22) _____



m50–22

Find the slope of the line that passes through the given points.

23) (8, 5) and (6, 9) 23) _____

m50–23

Find an equation of the line described. Write the equation in slope –intercept form if possible.

24) Slope 2, through (5, 2) 24) _____

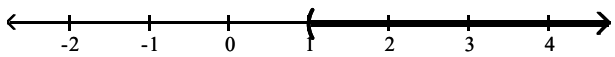
m50–24

Evaluate the function.

25) Find f(4) when $f(x) = x^2 + 4x - 3$. 25) _____

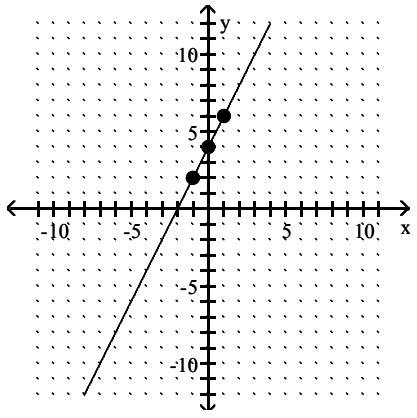
m50–25

1) 40
2) –3
3) 11x + 16
4) 9
5) 2
6) –8
7) 12
8) –7.9
9) 24
10) 475
11) 7 cm
12) $\frac{4}{5}$
13) 63.585 sq ft
14) $\frac{1}{4}$
15) –8
16) no solution
17) all real numbers
18) $T = \frac{A - P}{PR}$
19) (1, ∞)

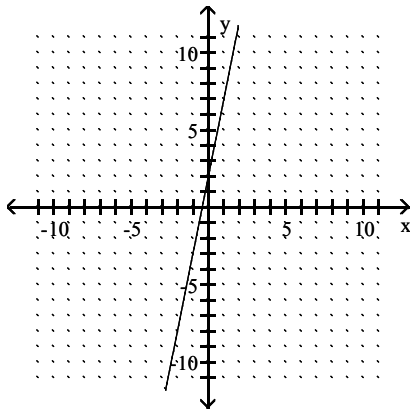


20) no
21)

x	y
0	4
1	6
–1	2



22)



23) – 2

24) $y = 2x - 8$

25) 29