Cpm chapter 1 test answers online free printable worksheets

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10) $\frac{5}{2-i}\left(\frac{2+i}{2+i}\right) = \frac{10+5i}{5}$

$= 2+i$

11) $\frac{2}{7-i}\left(\frac{7+i}{7+i}\right)$

$= \frac{14+2i}{50} = \frac{7+i}{25}$

12. Use the quadratic formula to solve
$x^2 - x - 3 = x$

$x^2 - 2x - 3 = 0$

$a=1\ b=-2\ c=-3$

$x = \frac{-b \pm \sqrt{b^2-4ac}}{2a}$

$= \frac{2 \pm \sqrt{4-4(-3)}}{2}$

$= \frac{2 \pm 4}{2}$ → 3, −1

13. Use the quadratic formula to solve
$-x^2 + 2x - 12 = 0$

$a=-1\ b=2\ c=-12$

$\frac{-2 \pm \sqrt{4-4(-1)(-12)}}{-2} = \frac{-2 \pm 2\sqrt{11}i}{-2}$

$1 \pm \sqrt{11}i$

14. How many REAL solutions does $x^2 - 2x - 3 = 0$ have? Explain your answer using discriminant.

since the discriminant is 16 you have 2 real solutions

15. How many REAL solutions does $-x^2 + 2x - 12 = 0$ have? Explain your answer using discriminant.

since the discriminant is −44 you have 2 imaginary solutions

16. How many REAL solutions does $3x^2 - 6x + 3 = 0$ have? Explain your answer using discriminant.

Since the discriminant is 0 you have one real solution

17. What is the vertex of
a) $y + 1 = 8(x - 10)^2$? $(-10, -1)$
b) $y - 23 = 6(x + 16)^2$? $(-16, 23)$

18. Factor $x^2 - 16x + 64 = 0$

$(x-8)^2 = 0$

$x = 8$

19. Factor $x^2 + 3x - 18 = 0$

$(x+6)(x-3)$

$x = -6, 3$

#20-23. Write a quadratic function (in any of the 3 forms) from the given information.

20. vertex: (−4, −2) point: (−3, −1)

$y = a(x+4)^2 - 2$

$-1 = a(-3+4)^2 - 2$

$y = 1(x+4)^2 - 2$

21. *x*-intercepts: −7, −2 point: (−5, −6)

$y = a(x+7)(x+2)$

$-6 = a(-5+7)(-5+2)$

$y = 1(x+7)(x+2)$

22. *x*-intercepts: −3, −2 point: (−4, −6)

$y = a(x+3)(x+2)$

$-6 = a(-4+3)(-4+2)$

$a = -3$

$y = -3(x+3)(x+2)$

23. vertex: (3, −2) point: (7, 6)

$y = a(x-3)^2 - 2$

$6 = a(7-3)^2 - 2$

$a = \frac{1}{2}$

$y = \frac{1}{2}(x-3)^2 - 2$

24. Find the discriminant and interpret to tell how many and what type of zeros exist.

A) $y = x^2 + 2x + 24$

$b^2 - 4ac$

$4 - 4(1)(24) = -92$

2 imaginary

B) $y = x^2 + 2x - 24$

$b^2 - 4ac$

$4 - 4(1)(-24) = 100$

2 real solutions

C) $y = x^2 + 2x + 1$

$b^2 - 4ac$

$4 - 4 = 0$

1 real solution

9-4 Practice

Solving Quadratic Equations by Using the Quadratic Formula

Solve each equation by using the Quadratic Formula. Round to the nearest tenth if necessary.

1. $g^2 + 2g - 3 = 0$ −3, 1
2. $a^2 + 8a + 7 = 0$ −7, −1
3. $v^2 - 4v + 6 = 0$ ∅
4. $d^2 - 6d + 7 = 0$ 1.6, 4.4
5. $2z^2 + 9z - 5 = 0$ $-5, \frac{1}{2}$
6. $2r^2 + 12r + 10 = 0$ −5, −1
7. $2b^2 - 9b = -12$ ∅
8. $2h^2 - 5h = 12$ $-1\frac{1}{2}, 4$
9. $3p^2 + p = 4$ $-1\frac{1}{3}, 1$
10. $3m^2 - 1 = -8m$ −2.8, 0.1
11. $4y^2 + 7y = 15$ $-3, 1\frac{1}{4}$
12. $1.6n^2 + 2n + 2.5 = 0$ ∅
13. $4.5k^2 + 4k - 1.5 = 0$ −1.2, 0.3
14. $\frac{1}{2}c^2 + 2c + \frac{3}{2} = 0$ −3, −1
15. $3w^2 - \frac{3}{4}w = \frac{1}{2}$ −0.3, 0.6

State the value of the discriminant for each equation. Then determine the number of real roots of the equation.

16. $a^2 + 8a + 16 = 0$ — 0; 1 real root
17. $c^2 + 3c + 12 = 0$ — −39; no real roots
18. $2w^2 + 12w = -7$ — 88; 2 real roots
19. $2u^2 + 15u = -30$ — −15; no real roots
20. $4n^2 + 9 = 12n$ — 0; 1 real root
21. $3g^2 - 2g = 3.5$ — 46; 2 real roots
22. $2.5k^2 + 3k - 0.5 = 0$ — 14; 2 real roots
23. $\frac{3}{4}d^2 - 3d = -4$ — −3; no real roots
24. $\frac{1}{4}s^2 = -s - 1$ — 0; 1 real root

CONSTRUCTION For Exercises 25 and 26, use the following information.

A roofer tosses a piece of roofing tile from a roof onto the ground 30 feet below. He tosses the tile with an initial downward velocity of 10 feet per second.

25. Write an equation to find how long it takes the tile to hit the ground. Use the model for vertical motion, $H = -16t^2 + vt + h$, where H is the height of an object after t seconds, v is the initial velocity, and h is the initial height. (*Hint:* Since the object is thrown down, the initial velocity is negative.) $H = -16t^2 - 10t + 30$

26. How long does it take the tile to hit the ground? about 1.1 s

27. **PHYSICS** Lupe tosses a ball up to Quyen, waiting at a third-story window, with an initial velocity of 30 feet per second. She releases the ball from a height of 6 feet. The equation $h = -16t^2 + 30t + 6$ represents the height h of the ball after t seconds. If the ball must reach a height of 25 feet for Quyen to catch it, does the ball reach Quyen? Explain. (*Hint:* Substitute 25 for h and use the discriminant.) No; the discriminant, −316, is negative, so there is no solution.

NAME _____ DATE _____ PERIOD _____

SCORE _____

6 Chapter 6 Test, Form 3

Assessment

Graph each system of equations. Determine whether the system has *no* solution, *one* solution, or *infinitely many* solutions. If the system has one solution, name it.

1. $\frac{1}{3}y = x$
   $y + x + 4 = 0$
2. $x + 3y = 3$
   $3y = -x + 9$

Use substitution to solve each system of equations. If the system does not have exactly one solution, state whether it has *no* solution or *infinitely many* solutions.

3. $y = 2x - 7$
   $3x - 4y = 8$
4. $4y - 3x = 5$
   $\frac{3}{4}x = y - 4$
5. $x - 2y = -3$
   $y = 3x - 1$
6. $y = -x + 3$
   $x + y = -1$

Use elimination to solve each system of equations.

7. $6x - 7y = 21$
   $3x + 7y = 6$
8. $0.2x + 0.5y = 0.7$
   $-0.2x - 0.6y = -1.4$
9. $2x + \frac{2}{3}y = -8$
   $\frac{1}{2}x - \frac{1}{3}y = 1$
10. $\frac{1}{2}x + \frac{2}{5}y = -10$
    $3x + 6y = -6$

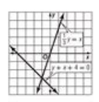
Determine the best method to solve each system of equations. Then solve the system.

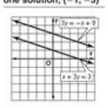
11. $x + y = 147$
    $25x + 10y = 2415$
12. $7y = 2\frac{1}{2} - 2x$
    $5x = 3y - 4$

13. Three times one number added to five times a second number is 68. Three times the second number minus four times the first number is 6. What are the two numbers?

14. The difference of two numbers is 5. Five times the lesser number minus the greater number is 9. What are the two numbers?

15. A trail mix that costs $2.45 per pound is mixed with a trail mix that costs $2.30 per pound. How much of each type of trail mix must be used to have 30 pounds of a trail mix that costs $2.35 per pound?

1. 

2. one solution; (−1, −3)


2. no solution
3. (4, 1)
4. no solution
5. (1, 2)
6. no solution
7. $\left(3, -\frac{3}{7}\right)$
8. (−14, 7)
9. (−2, −6)
10. (−32, 15)
11. substitution; (63, 84)
12. elimination (×); $\left(-\frac{1}{2}, \frac{1}{2}\right)$
13. 6, 10
14. $3\frac{1}{2}, 8\frac{1}{2}$
15. 10 lb of $2.45 mix; 20 lb of $2.30 mix

Name: _____ Class: _____ Date: _____ ID: A

Algebra 2 Chapter 5 Practice Test (Review)

Multiple Choice
Identify the choice that best completes the statement or answers the question.

Determine whether the function is linear or quadratic. Identify the quadratic, linear, and constant terms.

____ 1. $y = (x + 1)(6x - 6) - 6x^2$

a. linear function
linear term: $-35x$
constant term: 6

b. quadratic function
quadratic term: $6x^2$
linear term: $-35x$
constant term: 6

c. linear function
linear term: $0x$
constant term: -6

d. quadratic function
quadratic term: $-6x^2$
linear term: $0x$
constant term: -6

____ 2. Find a quadratic function to model the values in the table. Predict the value of y for $x = 6$.

x	y
-1	2
0	-2
3	10

a. $y = -2x^2 + 2x - 2; -58$

b. $y = 2x^2 - 2x - 2; 60$

c. $y = 2x^2 - 2x - 2; 58$

d. $y = -2x^2 + 2x + 2; -58$

____ 3. A biologist took a count of the number of migrating waterfowl at a particular lake, and recounted the lake's population of waterfowl on each of the next six weeks.

Week	0	1	2	3	4	5	6
Population	585	582	629	726	873	1,070	1,317

a. Find a quadratic function that models the data as a function of x, the number of weeks.
b. Use the model to estimate the number of waterfowl at the lake on week 8.

a. $P(x) = 25x^2 - 28x + 585$; 1,614 waterfowl

b. $P(x) = 30x^2 + 28x + 535$; 2,679 waterfowl

c. $P(x) = 25x^2 - 28x + 585$; 1,961 waterfowl

d. $P(x) = 30x^2 + 28x + 535$; 2,201 waterfowl

Biology Test Chapter 18

Multiple Choice
Identify the letter of the choice that best completes the statement or answers the question.

____ 1. Which statement about classification is true?
a. Biologist use regional names for organisms.
b. Biologists use a common classification system based on similarities that have scientific significance.
c. Biologists have identified and named most species found on Earth.
d. Taxonomy uses a combination of common and scientific names to make the system more useful.

____ 2. Linnaeus's two-word naming system is called
a. binomial nomenclature
b. taxonomy
c. trinomial nomenclature
d. classification

____ 3. Several different classes make up a
a. family
b. species
c. kingdom
d. phylum

____ 4. A group of closely related species is a
a. class
b. genus
c. family
d. order

____ 5. Which of the following lists the terms in order from the group with the most species to the group with the fewest?
a. order, phylum, family, genus
b. family, genus, order, phylum
c. phylum, class, order, family
d. genus, family, order, phylum

____ 6. Grouping organisms together based on their evolutionary history is called
a. evolutionary classification
b. traditional classification
c. cladogram classification
d. taxonomic classification

____ 7. Traditional classification groups organisms together based on
a. derived characters
b. similarities in appearance
c. DNA and RNA similarities
d. molecular clocks

____ 8. In an evolutionary classification system, the higher the taxon level,
a. the more similar the members of the taxon become.
b. the more common ancestors would be found in recent time.
c. the fewer the number of species in the taxon.
d. the farther back in time the common ancestors would be.

____ 9. Classifying organisms using a cladogram depends on identifying
a. external and internal structural similarities
b. new characteristics that have appeared most recently as lineages evolve
c. characteristics that have been present in the group for the longest time
d. individual variations within the group

____ 10. to compare traits of very different organisms, you would use
a. anatomical similarities
b. anatomical differences
c. DNA and RNA
d. proteins and carbohydrates

____ 11. Organisms whose cell walls contain peptidoglycan belong in the kingdom
a. Fungi
b. Eubacteria
c. Plantae
d. Archaebacteria

____ 12. Multicellular organisms with no cell walls or chloroplasts are members of the kingdom
a. Animalia
c. Plantae

Possible response: g(x)= 4+ x 2 g(x)= 4+ x 2 h(x)= 4 3−x h(x)= 4 3−x f=h)g f=hgg 1.5 Function transformation 1. (fsg)(6)=6 (f.g.)(6)=6; (g.f)(6)=6 (g.f)(6)=6 89. (f.g. (x= 1 x ,x>0 (f.g. No, because it doesn't pass the horizontal line test. 29. domain =[1950,2002] range = [47,000,000.89,000,000] 7. 27. the graph of f(x+43) f(x+43) is a horizontal shift to the left 43 units of the graph of f. 53. (f+g)(x)=3 x 2 + x−5 , (f+g)(x)=3 x 2 + x−5 , domain: [5,∞) [5,∞) (f−g)(x)=3 x 2 − x−5 , (f−g)(x)=3 x 2 − x−5 , domain: [5,∞) 3 x 2 x−5 , domain: (5,∞) (5,∞) 11. the graph of g is a vertical stretch by a factor of 4 of the graph of f. b. f(x)=|x-3|−2 f(x)=|x-3|−2 35. f(x)=| x−3 | f(x)=| x−3 | 63. 3. f(g(0))=27,g(f(0))=94 f(g(0))=27,g(f(0))=−94 f(g(0))=27,g(f(0))=−94 75. [0, 10] 85. g(f(x))=x. the domain of a function depends on what values of the independent variable make the function undefined u imaginary. choose a test value in each range to determine which values satisfy inequality. the graph of f(x)−7 f(x)−7 is a vertical shift down to 7 units of the graph of f. a text (g.f)(x)= 3 2−4x ; (g.f)(x)=− 3 2−4x ; b (−∞, 1 2) (∞ −, 1 2) 23. combine the graphics to find the graph of the textual function (g = gxa. the graph of f(x)=|x| f(x)=|x| is vertically stretched by a factor of 2, horizontally shifted 4 units to the right, reflected through the horizontal axis, and then shifted vertically 3 units upward. a (0.2) Collect(2,∞); (0.2) Collect(2,∞); b (−∞,−2) Collect(2,∞); (−∞,−∞,−∞,−∞,−∞,−∞,−2) the domain of the function f −1 f −1 is (−∞,−2) (−∞,−2) and== sync, corrected by elderman == (¢ÃÂâ¢ÂÂÂ,¢ÃÂÂ) (¢ÃÂâ¢ÂÂÂ,¢ÃÂÂ) 47. |f(x)¢ÃÂÂ8|

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