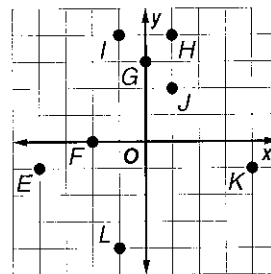


4 Chapter 4 Test, Form 2B

Write the letter for the correct answer in the blank at the right of each question.

For Questions 1 and 2, use the graph to answer each question.



1. Write the ordered pair for point *L*.
 A. (1, -4) B. (-4, 1)
 C. (-1, -4) D. (-4, -1) 1. _____

 2. Name the quadrant in which point *E* is located.
 A. I B. II C. III D. IV 2. _____

 3. To plot the point (-5, 2), start at the origin and move
 A. right 2 units and down 5 units. B. left 5 units and up 2 units.
 C. left 5 units and down 2 units. D. right 2 units and up 5 units. 3. _____

 4. What type of transformation is shown at the right?
 A. reflection B. translation
 C. dilation D. rotation 4. _____
-
5. A letter R is turned around a point. Which type of transformation is this?
 A. reflection B. translation C. dilation D. rotation 5. _____

 6. Triangle *HIJ* with *H*(-2, 1), *I*(1, 4), and *J*(3, 1) is reflected over the *x*-axis. What are the coordinates of the vertices of the figure after the triangle is reflected?
 A. *H'*(-2, -1), *I'*(1, -4), *J'*(3, -1) B. *H'*(2, 1), *I'*(-1, 4), *J'*(-3, 1)
 C. *H'*(2, -1), *I'*(-1, -4), *J'*(-3, -1) D. *H'*(1, -2), *I'*(4, 1), *J'*(1, 3) 6. _____

 7. What is the range of the relation {(5, 3), (2, 8), (-1, 1), (6, 1)}?
 A. {(-1, 1), (6, 1)} B. {-1, 2, 5, 6}
 C. {1, 3, 8} D. {3, 8} 7. _____

 8. What is the inverse of the relation {(-2, -1), (2, 1), (-2, 4), (-4, 0)}?
 A. {(-4, 0), (-2, 4), (2, 1), (-2, -1)} B. {(2, 1), (-2, -1), (2, -4), (4, 0)}
 C. {(1, 2), (-1, -2), (-4, 2), (0, 4)} D. {(-1, -2), (1, 2), (4, -2), (0, -4)} 8. _____

 9. Solve $y = -2x + 8$ if the domain is {-2, 0, 4}.
 A. {(-2, 12), (0, 8), (4, 0)} B. {(-2, 4), (0, 8), (4, 0)}
 C. {(-2, 6), (0, 8), (4, 12)} D. {(-2, 4), (0, 0), (4, -8)} 9. _____

 10. Which equation is *not* a linear equation?
 A. $2x + 5y = 3$ B. $y = -10$ C. $5 = 3xy$ D. $y = \frac{x}{7} + 4$ 10. _____

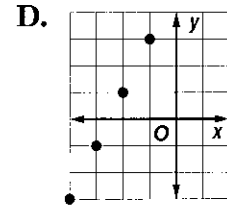
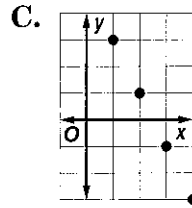
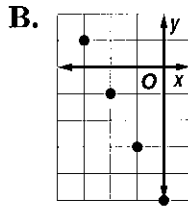
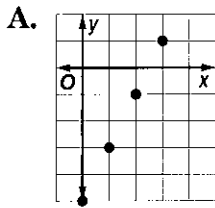
 11. If $f(x) = 2x^2 - 3x + 5$, what is the value of $f(-3)$?
 A. 14 B. 50 C. 2 D. 32 11. _____

 12. Find the next two numbers of the sequence 1, 8, 5, 12, 9, 16, 13, ...
 A. 24, 21 B. 20, 17 C. 20, 24 D. 17, 21 12. _____

Assessment

4 Chapter 4 Test, Form 2B *(continued)*

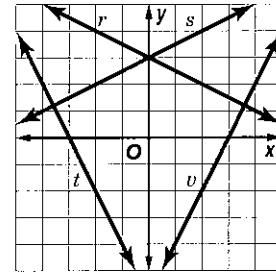
13. Which is the graph of $2x + y = -5$ if the domain is $\{-4, -3, -2, -1, 0\}$?



13. _____

14. Which line shown at the right is the graph of $x + 2y = 6$?

- A. *r* B. *s*
C. *t* D. *v*



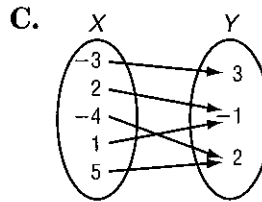
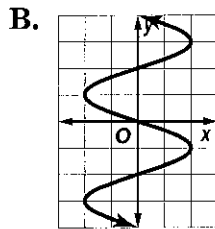
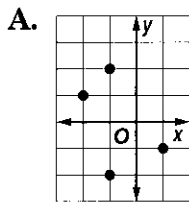
14. _____

15. Which equation has a graph that is a horizontal line?

- A. $x - 7 = 0$ B. $x = y$
C. $2y + 3 = 4$ D. $x + y = 0$

15. _____

16. Determine which relation is a function.



D.

<i>x</i>	<i>y</i>
-2	7
0	0
1	-2
1	3

16. _____

17. Determine which sequence is an arithmetic sequence.

- A. $-16, -12, -8, -4, \dots$ B. $1, 4, 2, 5, 3, \dots$
C. $4, 8, 16, 32, \dots$ D. $1, 1, 2, 3, 5, \dots$

17. _____

18. Which equation describes the n th term of the arithmetic sequence $-12, -14, -16, -18, \dots$?

- A. $a_n = -2n - 10$ B. $a_n = -12 - 2n$
C. $a_n = 10n - 2$ D. $a_n = -2n + 10$

18. _____

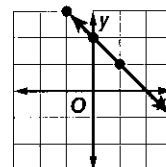
19. Find the next two items in the pattern,



19. _____

20. Write an equation in function notation for the relation.

- A. $f(x) = -2x$ B. $f(x) = -x + 2$
C. $f(x) = x - 2$ D. $f(x) = 2x + 2$



20. _____

Bonus If $f(x) = x - x^2$, find $f(2m + 3)$.

B: _____