PER.

Review: Making Connections





7. To find <i>t</i> , the total cost can be used where " d " r	t of an order of DVDs from a	certain website, the function $t = 19.99d + 4.99$
a) What is the slope	? What does it represent?	
b) What is the v-inter	rcept? What might it represer	ıt?
c) What is the cost o	f ordering 3 DVDs?	
d) If " <i>t</i> " is a function of	of "d", which of the following is	s true?
A. The value of	d is dependent on t.	
B. The value of	<i>t</i> is dependent on <i>d</i> .	
8. What are the x- and y	-intercepts of the line graphe	d below?
x-intercept:		
y-intercept:		
9. If (x, -1) is a solution t	to the equation $x - 4y = 12$, w	hat is the value of x?
	(1)	
10. Which of the following	ig equations represents the li	near parent function?
F VY		
1. y ^	· · · y – ^	
G. $y = x^2$	J. $y = -x^2$	

11. Wri	11. Write the following equations in slope-intercept form.								
a)	-x + 3y = 9	b) $2x - y = 12$							
12. Match each equation below to the form it's in.									
	4x + 3y = 16	A. Slope-intercept form							
	y - 5 = 3x - 2	B. Standard form							
	$y = \frac{1}{2}x - 7$	C. Neither							
	2x - y = -14								
number	13. The figure below shows a pattern. Find the expression that could be used to determine the number of triangles in the n th figure.								
		\wedge $\wedge \wedge \wedge$							
14. Hov	14. How many triangles would there be in the 10 th figure of the pattern shown above?								
15. Find the algebraic expression that represents the relationship between the terms in the sequence below and its position, n, in the sequence. Find the 15 th term in the sequence.									
	3, 8, 13, 18,								
Exp	ression:	15 th Term:							





17. Two functions are given below.

$$f(x) = 2x + 5$$

 $g(x) = 4x + 5$

How does the graph of *f* compare with the graph of *g*?

F. The graph of f(x) is less steep than the graph of g(x).

G. The graph of f(x) is steeper than the graph of g(x).

H. The graph of f(x) has a greater y-intercept.

J. The graph of f(x) has a smaller y-intercept.

_____ 18. The Junior class is selling \$20 prom tickets. The money raised will be given to the DJ for his services. Which best describes the dependent quantity in this situation?

A. The number of tickets sold is dependent on the amount the DJ will earn.

B. The price of each ticket is dependent on the number of tickets sold.

C. The amount the DJ earns is dependent on the number of tickets sold.

D. The amount the DJ earns is dependent on the price of each ticket.





_____24. Use the grid to graph y > 2x - 5. Which coordinate point represents a solution of this inequality?

- A. (0, -5)
- B. (7, 2)
- C. (-5, 3)
- D. (2, -8)

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25. Katie earns \$8 an hour babysitting for Ms. Knox and \$10 extra if she drives over in her own car without having to be picked up.

- a) If Katie's total pay can be represented by the equation y = 8x + 10, what does the variable *x* represent?
- b) Ms. Knox decides to change Katie's pay according to the table shown. How much will Katie get paid if she babysits for 7 hours?

hrs	pay
2	18
4	36
6	54