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MAKE UP WORK

1. What is the average rate of change for the function $f(x) = 3x^2 - 5$ on the $interval\ -3 < x < -1$?
   a.) 5
   b.) -12
   c.) - 7
   d.) 8
2. A program to restore an endangered frog species began 8 months ago. The table shows the population of the species at various times since the program began.

MONTH	NUMBER OF FROGS
0	12
2	65
4	190
6	545
8	1230

On average, what has been the monthly change in the frog population over the last 2 months?

   a. 260
   b. 340.5
   c. 45
   d. 342.5

3. Find the domain of the following expression:
   $F(x) = \frac{6-2X}{4X+3}$
   a. The domain of the function includes all real numbers.
   b. The domain of the function includes all whole numbers where $x \geq 7/5$.
   c. The domain of the function includes all real numbers where $x \neq -3/4$.
   d. The domain of the domain includes all numbers where $x = 3/5$.

4. A cricket match charges customers an initial fee of $18 to enter the gallery. Show time cost an additional $12 per hour. Which function represents the total cost in dollars, of watching it as a function having a show time in t hours?
   a. $c(d) = 18t + 12d$
   b. $c(d) = 12 + 18(t-1)$
   c. $c(d) = 18 + 12t$
   d. $c(d) = 8d + 18(t-1)$
5. 5. Sam has a mobile that automatically take pictures. His mobile takes 10 pictures on Day 1 and 6 pictures every day after that .Which function models the total number of pictures p(d) the camera has taken after d days?
   a. $p(d) = 10(d-1) + 6$
   b. $p(d) = 10 + 6(d-1)$
   c. $p(d) = 6 + 10(d-1)$
   d. $p(d) = 10d + 6d$

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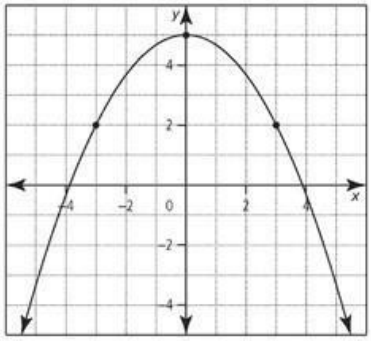
6. Compare the graph and the equation given below:

G(x)



$F(x) = 3X^2 + 4X - 10$

NO.	STATEMENT	TRUE (T)	FALSE(F)
1.	The graph of F(x) & G(x) should open down.		
2.	The Y- intercept of F(x) is greater than Y-intercept of G(x).		
3.	The graph has 1 X-intercept.		

a. 1(T), 2(F), 3(T).
b. 1(F), 2(T), 3(T).
c. 1(T), 2(F), 3(F).
d. 1(F), 2(F), 3(F).

7. The function g(x) can be represented as $g(x) = -X^2 - 6X - 2$.

Some of the values of the quadratic function h(x) are shown in the table.

X	h(x)
-2	-8
-1	-2
0	2
1	4
2	4

Which statement is a true comparison of the properties of g(x) and h(x)?

a. The function g(x) has a greater Y – intercept than the function h(x).
b. The function h(x) has a greater Y – intercept than the function g(x).
c. The graph of the function g(x) has a negative ‘a value and it should open up.
d. The function h(x) has X – intercept at Y =4.

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8. $What\ is\ the\ solution\ to\ -3(9r+3)-8r \geq -16r-(10r-9)$.

   a. $r \leq -5$
   b. $r \geq -5$
   c. $r \leq -2$
   d. $r \geq 1$

9. $What\ is\ the\ solution\ of\ -6x-15 = -6x+5(-4-x)$?
   a. $x = -4$
   b. $x = -1$
   c. Infinite solutions
   d. No solution

10. 10.Which numerical expression would provide you the solution to the equation

$$2X^2 + 5X - 4\,?$$

a. $\frac{-8\pm\sqrt{57}}{4}$ b. $\frac{-5\pm\sqrt{57}}{4}$ c. $\frac{-4\pm\sqrt{47}}{6}$ d. $\frac{-2\pm\sqrt{57}}{4}$

11. Given $F(x) = X2+6\ and\ G(x) = 2X+6$ which value of equation is the solution to the equation F(x)=G(x)?
   a. X = -1
   b. X = 3
   c. X = 2
   d. X = 4

12. Given $f(x) = 5x-3\ and\ g(x) = 4x+2$ which value of f(X) is a solution to the equation f(x) = g(x)?
   a. X = -2
   b. X = 1
   c. X = 5
   d. X = 3

13. What is the average rate of change for the function f(x) = 5x+3 on the interval -3<x<-1?
   a. 5
   b. -12
   c. -7
   d. 8

14. 14. A cricket match charges customers an initial fee of $15 to enter the gallery Show time cost an additional $10 per hour. Which function represents the total cost in dollars, of watching it as a function having a show time in t hours?
   a. $c(d) = 15t + 12d$
   b. $c(d) = 15 + 18(t-1)$
   c. $c(d) = 15 + 10t$
   d. $c(d) = 8d + 18(t-1)$

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15. Which of the following ordered pair is a solution to the inequality $Y > 2X + 3$.

a. (4, 5)

b. (1, 4)

c. (2, 8)

d. (3, 7)