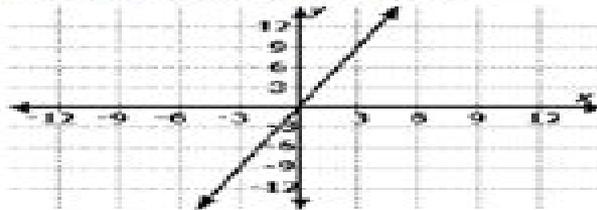


Directions: Answer the questions below.

17. Which of these functions has a greater rate of change than the function graphed below, and why?



- A. $y = 2x + 12$, because the rate of change of the graphed function is 3
- B. $y = 2x + 12$, because the rate of change of the graphed function is 2
- C. $y = 10x + 1$, because the rate of change of the graphed function is 3
- D. $y = 10x + 1$, because the rate of change of the graphed function is 2

20. What is the distance between the points (18, 12) and (-4, -34)?

- A. 14 units
- B. 22 units
- C. 45 units
- D. 50 units

22. Which equation is equivalent to $3 + 5(x + 2) = 12$?

- A. $5x + 10 = 12$
- B. $5x + 2 = 12$
- C. $5x + 8 = 12$
- D. $5x + 13 = 12$

23. Simplify: $(4x^2y)(4x^2y)$

- A. $8x^4y$
- B. $8x^4y^2$
- C. $16x^4$
- D. $16x^4y^2$

18. Olivia added the linear equations $-8x + 5y = 19$ and $5x - 8y = -17$ together and got $x = 2$. She then substituted the value of x back into one of the equations and simplified to get $y = 3$. How many solutions are there to the system of equations?

- A. 0
- B. 1
- C. 2
- D. 3

19. Suppose that a number written as a decimal has an infinite number of non-repeating digits after the decimal point. What is this number called?

- A. irrational
- B. natural
- C. rational
- D. unnatural

24. Which relation is a not function?

- A. $(0, 2), (4, 5), (10, 12), (15, 10)$
- B. $(-5, 20), (8, 22), (8, 20), (11, 8)$
- C. $(0, 8), (5, -4), (7, 4), (12, 1)$
- D. $(-4, \frac{1}{4}), (0, \frac{1}{3}), (17, \frac{2}{17}), (18, \frac{1}{18})$

23. Which value of x will make this expression true?

$$y^5 + y^4 = y^{10}$$

- A. 3
- B. 4
- C. 10
- D. 20

26. Matthew must solve the following question on a quiz.

Leah has 4 times as many nickels as she has dimes. All together, her nickels and dimes have a value of \$1.20. How many of each coin does she have?

Which of the following systems of equations can he use to answer this question if n represents the number of nickels and d represents the number of dimes?

- A. $n = 4d$
 $n + d = 120$
- B. $d = 4n$
 $n + d = 120$
- C. $n = 4d$
 $5n + 10d = 120$
- D. $n = 4n$
 $5n + 10d = 120$

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