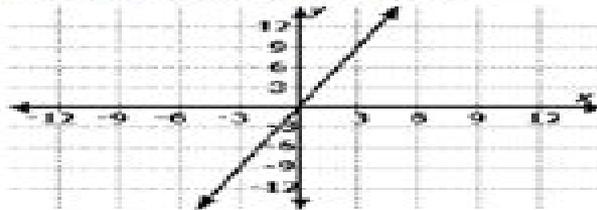


Directions: Answer the questions below.

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 $(-4, -36)$?

- 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. $\{(2, 3), (4, 5), (10, 12), (15, 10)\}$
- B. $\{(5, 20), (8, 22), (8, 20), (11, 8)\}$
- C. $\{(6, 8), (8, -4), (7, 4), (12, 1)\}$
- D. $\{(4, \frac{1}{4}), (8, \frac{1}{3}), (17, \frac{2}{17}), (18, \frac{1}{18})\}$

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. $n = 4n$
 $5n + 10d = 120$

Math Models Final Review Answer Key

JS Bruner



Math Models Final Review Answer Key:

Supplementary Material and Solutions Manual for Mathematical Modeling in the Environment Charles R.

Hadlock,2020-05-05 This manual is meant to provide supplementary material and solutions to the exercises used in Charles Hadlock s textbook Mathematical Modeling in the Environment The manual is invaluable to users of the textbook as it contains complete solutions and often further discussion of essentially every exercise the author presents in his book This includes both the mathematical computational exercises as well as the research questions and investigations Since the exercises in the textbook are very rich in content rather than simple mechanical problems and cover a wide range most readers will not have the time to work out every one on their own Readers can thus still benefit greatly from perusing solutions to problems they have at least thought about briefly Students using this manual still need to work out solutions to research questions using their own sources and adapting them to their own geographic locations or to numerical problems using their own computational schemes so this manual will be a useful guide to students in many course contexts Enrichment material is included on the topics of some of the exercises Advice for teachers who lack previous environmental experience but who want to teach this material is also provided and makes it practical for such persons to offer a course based on these volumes This book is the essential companion to Mathematical Modeling in the Environment **500 ACT Math Questions to Know by Test Day, Third Edition** NA Anaxos,2022-02-21 Tons of ACT Math practice in an easy to use format updated to match the latest exam requirements and now featuring a 20 question Diagnostic Quiz Practice makes perfect and with 500 ACT Math Questions to Know by Test Day Third Edition you ll get a ton of practice with hundreds of questions smart test taking tips and a 20 question Diagnostic Quiz to help you track your progress It s the perfect way to sharpen your skills and build your confidence for test day Organized by subject with fully worked out step by step solutions 500 ACT Math Questions to Know by Test Day Third Edition provides excellent problem solving practice to help you make the most of your review time With small bits of information presented for quick and easy reference and smart strategies for answering all multiple choice and constructed response question types this essential study guide is helpful for all types of students whether you re looking for a thorough refresh of topics or need extra help understanding specific question types Features 500 ACT Math questions and answers organized by subject refreshed to match the latest exam requirements NEW 20 Question Diagnostic Quiz to test your knowledge Written to parallel the topic and format of the math section of the ACT accompanied by answers with comprehensive explanations Ideal and effective problem solving practice to help build the skills you need Includes strategies for answering multiple choice and constructed response question types **500 ACT Math Questions to Know by Test Day, Second Edition** Anaxos, Inc.,2018-02-23 Discover 500 Ways to Achieve Your Highest Score on the ACT The ACT is required or preferred by more colleges and universities than any other college entrance exam This essential guide will help you sharpen your skills and study more effectively for the exam The questions are similar to the ones featured on the ACT so

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