

- 6) The point $(2, 2, -2)$ lies on a sphere in space. If the center of the sphere is the origin, what is the diameter?

- a) 2
b) $2\sqrt{2}$
c) $2\sqrt{3}$
d) 4
e) $4\sqrt{3}$

The diameter of the sphere (the longest possible line drawn inside the sphere) is double the length of the radius....

To find the radius, use distance formula

$$d = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2}$$

$$= \sqrt{(2 - 0)^2 + (2 - 0)^2 + (-2 - 0)^2} = \sqrt{12} = 2\sqrt{3} \text{ (radius!)}$$

$$\text{diameter} = 4\sqrt{3}$$

- 7) If p and q are positive integers, where $pq = 24$, then $\frac{p}{q}$ cannot equal

- a) $1/6$ $2/12$
b) $2/3$ $4/6$
c) 2
d) $8/3$ $8/3$
e) 6 $12/2$

consider factor pairs of 24:

- 1 and 24
- 2 and 12
- 3 and 8
- 4 and 6

8) $2 + \frac{x}{x+5} =$

- a) $\frac{x+2}{x+5}$ b) $\frac{x+2}{x+6}$ c) $\frac{2x}{x+5}$ d) $\frac{3x+5}{x+5}$

(common denominator) $\frac{2(x+5)}{(x+5)} + \frac{x}{x+5}$

$$= \frac{2x+10+x}{x+5} = \frac{3x+10}{x+5}$$

- 9) If $\log(3) = A$ and $\log(4) = B$, then $\log(36) =$

- a) A^2B b) $2A+B$ c) $2AB$ d) $3AB$ e) $\frac{AB}{3}$

log rule: $\log(XY) = \log X + \log Y$

$$\log(36) = \log(3 \cdot 3 \cdot 4) = \log(3) + \log(3) + \log(4) = A + A + B = 2AB$$

- 10) Let $R \oplus S = 2R - S$ What is $(5 \oplus 0) - (0 \oplus 5)$?

- a) -5
b) 0
c) 5
d) 10
e) 15

$$2(5) - 0 - [2(0) - 5] = 10 - [-5] = 15$$

Answer To Finical Math On Connexus

L Cohen



Answer To Finical Math On Connexus:

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treatment has been made purposely flexible so that if it is desired the applications may be made to depend upon two general formulas. No new formulas are developed for the solution of problems involving annuities due and deferred annuities and these special annuities are analyzed in terms of ordinary annuities. 3 The discussion of probability and its application to insurance is more extended than that found in many texts. In this edition we are including Answers to the exercises and problems.

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Table of Contents Answer To Finical Math On Connexus

1. Understanding the eBook Answer To Finical Math On Connexus
 - The Rise of Digital Reading Answer To Finical Math On Connexus
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer To Finical Math On Connexus
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answer To Finical Math On Connexus
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer To Finical Math On Connexus
 - Personalized Recommendations
 - Answer To Finical Math On Connexus User Reviews and Ratings
 - Answer To Finical Math On Connexus and Bestseller Lists

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 - Answer To Finical Math On Connexus Budget-Friendly Options
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 - Answer To Finical Math On Connexus Compatibility with Devices
 - Answer To Finical Math On Connexus Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answer To Finical Math On Connexus
 - Highlighting and Note-Taking Answer To Finical Math On Connexus
 - Interactive Elements Answer To Finical Math On Connexus
8. Staying Engaged with Answer To Finical Math On Connexus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer To Finical Math On Connexus
9. Balancing eBooks and Physical Books Answer To Finical Math On Connexus
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer To Finical Math On Connexus
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answer To Finical Math On Connexus
 - Setting Reading Goals Answer To Finical Math On Connexus
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answer To Finical Math On Connexus
 - Fact-Checking eBook Content of Answer To Finical Math On Connexus
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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