

Final answer key >

1) **C**

$$-4 \leq 2x + 10 \leq 4$$

$$\Rightarrow -14 \leq 2x \leq -6$$

$$-7 \leq x \leq -3 \quad \therefore \text{a}$$

3) $4x + 2 = 3$, $\therefore \text{a}$

$$\textcircled{1} 4x + 2 = 3 \quad \textcircled{2} 4x + 2 = -3$$

$$4x = 1$$

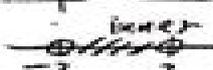
$$4x = -5$$

$$x = \frac{1}{4}$$

$$x = -\frac{5}{4}$$

4) $|x+3| < 2$ 

$$x < -6, 0 \leq x \quad \therefore \text{a}$$

5) $|4x-2| < 3$ 

$$-3 < 4x - 2 < 3$$

$$-1 < 4x < 5$$

$$-\frac{1}{4} < x < \frac{5}{4} \quad \text{a}$$

6) $|x+1| > 2$ 

$$x < -3, 1 < x \quad \text{b}$$

7) $|x-1| > 4$ 

$$x < -3, 5 < x \quad \text{c}$$

8) $|\frac{1}{2} - x| \leq \frac{2}{3}$ 

$$-\frac{2}{3} \leq \frac{1}{2} - x \leq \frac{2}{3}$$

$$-\frac{2}{3} - \frac{1}{2} \leq -x \leq \frac{2}{3} - \frac{1}{2}$$

$$-\frac{7}{6} \leq -x \leq \frac{1}{6} \quad \frac{7}{6} \geq x \geq -\frac{1}{6} \quad \text{d}$$

9. $y = 3x + 1$ $(x_1, y_1) = (0, -2)$
 parallel to it \Rightarrow slope is $3 = m$
 $y = mx + b$

$$y = 3x + b \quad (0, -2)$$

$$-2 = 3 \cdot 0 + b \quad b = -2$$

$$y = 3x - 2 \quad \therefore \text{a}$$

10. $m = 4$ $(-7, -6)$

$$y - y_1 = m(x - x_1)$$

$$y - (-6) = 4(x - (-7))$$

$$y + 6 = 4(x + 7)$$

$$y = 4x + 28 - 6$$

$$y = 4x + 22 \quad \text{a}$$

11. $y - y_1 = \frac{y_2 - y_1}{x_2 - x_1} (x - x_1)$

$$y - 19 = \frac{28 - 19}{-15 - (-6)} \{x - (-6)\}$$

$$y - 19 = \frac{9}{-9} (x + 6)$$

$$y - 19 = -1 \cdot (x + 6)$$

$$y - 19 = -x - 6$$

$$y = -x + 19, x + y = 13 \quad \text{a}$$

12. $y = 4x - 6$ slope $m = 4$

$$y = 4x + b, (-5, -1)$$

$$-1 = 4 \cdot (-5) + b$$

$$-1 = -20 + b$$

$$b = 19, y = 4x + 19 \quad \text{a}$$

13. $y = -3x + 6$ perpendicular: $m = \frac{1}{3}$

$$y = \frac{1}{3}x + b, (3, 7)$$

$$7 = \frac{1}{3} \cdot 3 + b$$

$$7 = 1 + b$$

$$6 = b$$

$$y = \frac{1}{3}x + 6 \quad \text{a}$$

Basic Mathematics For College Students

Alan S. Tussy



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1. Understanding the eBook Basic Mathematics For College Students
 - The Rise of Digital Reading Basic Mathematics For College Students
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Mathematics For College Students
 - 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 Basic Mathematics For College Students
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Mathematics For College Students
 - Personalized Recommendations
 - Basic Mathematics For College Students User Reviews and Ratings
 - Basic Mathematics For College Students and Bestseller Lists
5. Accessing Basic Mathematics For College Students Free and Paid eBooks
 - Basic Mathematics For College Students Public Domain eBooks
 - Basic Mathematics For College Students eBook Subscription Services
 - Basic Mathematics For College Students Budget-Friendly Options
6. Navigating Basic Mathematics For College Students eBook Formats

- ePub, PDF, MOBI, and More
 - Basic Mathematics For College Students Compatibility with Devices
 - Basic Mathematics For College Students Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Mathematics For College Students
 - Highlighting and Note-Taking Basic Mathematics For College Students
 - Interactive Elements Basic Mathematics For College Students
 8. Staying Engaged with Basic Mathematics For College Students
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Mathematics For College Students
 9. Balancing eBooks and Physical Books Basic Mathematics For College Students
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Mathematics For College Students
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Basic Mathematics For College Students
 - Setting Reading Goals Basic Mathematics For College Students
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Basic Mathematics For College Students
 - Fact-Checking eBook Content of Basic Mathematics For College Students
 - 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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