

Pythagorean Theorem

$$a^2 + b^2 = c^2$$

a, b are legs that form the right angle

c is the hypotenuse and is directly across from the right angle

the hypotenuse is the longest side



Repeating Decimals

one number repeat- put it over 9
two numbers repeat- put over 99
three numbers repeat- put over 999

Slope



positive negative zero no

Rate of change

a constant term of slope

Systems of equations

Answer is an ordered pair

To find answers, the way of choice:

1. graph
2. substitute
3. elimination

Systems by elimination

$$2x + 3y = 2$$

$$-2x + 4y = 12$$

$$7y = 14$$

$$y = 2$$

answer (3, 2)

add

$$2x + 3(2) = 2$$

$$2x + 6 = 2$$

$$2x = -6$$

$$x = -3$$

8th Grade Review Sheet

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Systems by graphing



Systems by substitution

$$x + y = 12$$

$$y = x - 4$$

$$x = (x - 4) = 12$$

$$7x - 4 = 12$$

$$2x = 16$$

$$x = 8$$

$$y = 8 - 4$$

$$y = 4$$

$$(8, 4)$$

Estimating Square Roots

1. Find the two perfect squares the radicand is between.
2. Subtract the lower perfect square from the radicand.
3. Subtract the lower perfect square from the higher perfect square.
4. Divide the two differences.
5. Put that decimal after the square root of the lower perfect square.

Linear/Non Linear

Linear makes a line

graph it to check

Slope Intercept Form

$$y = mx + b$$

m = slope

b = y-intercept

Area

rectangle- lw

triangle- $bh/2$

Volume of Prisms

Cylinder- $V = \pi r^2 h$

Cone- $1/3 \pi r^2 h$

Sphere- $4/3 \pi r^3$

Surface area- the sum of the areas of the faces

$$A = 4\pi r^2 \text{ or } \pi d^2$$

Rect

Prism

Tri

Prism

Laws of Exponents

Multiply- $\rightarrow$ add

$$x^a \cdot x^b = x^{a+b} = x^c$$

Divide- $\rightarrow$ subtract

$$x^a / x^b = x^{a-b} = x^c$$

Power to a power- $\rightarrow$ multiply

$$(x^a)^b = x^{a \cdot b} = x^c$$

Negative fraction- $\rightarrow$ put it

under a one

$$x^{-a} = 1/x^a$$

Is it a function?

vertical repeat

must pass the vertical line test



this does not work

North Carolina Eog Bubble Sheet

Lingsheng Yao

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the name bar.

North Carolina Eog Bubble Sheet:

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Table of Contents North Carolina Eog Bubble Sheet

1. Understanding the eBook North Carolina Eog Bubble Sheet
 - The Rise of Digital Reading North Carolina Eog Bubble Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying North Carolina Eog Bubble Sheet
 - 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 North Carolina Eog Bubble Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from North Carolina Eog Bubble Sheet
 - Personalized Recommendations
 - North Carolina Eog Bubble Sheet User Reviews and Ratings

- North Carolina Eog Bubble Sheet and Bestseller Lists
- 5. Accessing North Carolina Eog Bubble Sheet Free and Paid eBooks
 - North Carolina Eog Bubble Sheet Public Domain eBooks
 - North Carolina Eog Bubble Sheet eBook Subscription Services
 - North Carolina Eog Bubble Sheet Budget-Friendly Options
- 6. Navigating North Carolina Eog Bubble Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - North Carolina Eog Bubble Sheet Compatibility with Devices
 - North Carolina Eog Bubble Sheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of North Carolina Eog Bubble Sheet
 - Highlighting and Note-Taking North Carolina Eog Bubble Sheet
 - Interactive Elements North Carolina Eog Bubble Sheet
- 8. Staying Engaged with North Carolina Eog Bubble Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers North Carolina Eog Bubble Sheet
- 9. Balancing eBooks and Physical Books North Carolina Eog Bubble Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection North Carolina Eog Bubble Sheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine North Carolina Eog Bubble Sheet
 - Setting Reading Goals North Carolina Eog Bubble Sheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of North Carolina Eog Bubble Sheet
 - Fact-Checking eBook Content of North Carolina Eog Bubble Sheet
 - 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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