

9. Add.

$$\frac{4}{z^2} + \frac{6}{z} = \frac{4}{z^2} + \frac{6(z)}{z(z)} = \frac{4}{z^2} + \frac{6z}{z^2} = \frac{6z+4}{z^2} = \boxed{\frac{2(3z+2)}{z^2}}$$

10. Subtract.

$$\frac{3t}{t+6} - \frac{4t}{6+t} = \frac{3t}{t+6} - \frac{4t}{t+6} = \boxed{\frac{-t}{t+6}}$$

11. Simplify.

$$\frac{3x+5}{9x^2-25} - \frac{15x}{25x-15x^2} = \frac{3x+5}{(3x-5)(3x+5)} - \frac{15x}{-5x(3x-5)} = \frac{1}{(3x-5)} + \frac{3}{(3x-5)} = \boxed{\frac{4}{3x-5}}$$

12. Simplify.

$$\frac{\frac{2}{t} + \frac{3}{t^2}}{\frac{5}{t^2} + \frac{1}{t}} = \frac{\left(\frac{2}{t} + \frac{3}{t^2}\right)t^2}{\left(\frac{5}{t^2} + \frac{1}{t}\right)t^2} = \frac{\frac{2t^2}{t} + \frac{3t^2}{t^2}}{\frac{5t^2}{t^2} + \frac{t^2}{t}} = \frac{2t + 3}{5 + t} = \boxed{\frac{2t+3}{t+5}}$$

13. Solve and check for extraneous answers.

$$\frac{x+24}{x} = \frac{x}{4}$$

$4x+96 = x^2$
 $0 = x^2 - 4x - 96$
 $(x-12)(x+8)$
 $x=12 \quad x=-8$

$\checkmark \quad \frac{x+24}{x} = \frac{x}{4}$
 $\frac{12+24}{12} = \frac{12}{4}$
 $\frac{36}{12} = \frac{12}{4}$
 $3 = 3$

$\frac{x+24}{x} = \frac{x}{4}$
 $\frac{-8+24}{-8} = \frac{-8}{4}$
 $\frac{16}{-8} = \frac{-8}{4}$
 $-2 = -2$

$x=12$ $x=-8$

14. Solve and check for extraneous answers.

$$\frac{3t}{(t-5)(t+4)} = -\frac{6t}{(t-5)(t+4)(t-2)}$$

$$\frac{3t(t-2)}{(t-5)(t+4)(t-2)} = -\frac{6t}{(t-5)(t+4)(t-2)}$$

$$3t^2 - 6t = -6t^2 - 24t$$

$$9t^2 - 7t + 10 = 0$$

$$9t(t+2) = 0$$

$9t=0 \quad t+2=0$
 $t=0 \quad t=-2$

15. Graph. Include asymptotes.

$$g(x) = \frac{1}{x-3}$$

$x-3 \neq 0 \quad y \neq 0$
 $x \neq 3$

16. State the domain and range.

$$f(x) = \frac{1}{x-4} + 5$$

$D = \{x \mid x \neq 4\}$
 $R = \{y \mid y \neq 5\}$

17. State the domain and range.

$$f(x) = -\frac{3}{x} - 3$$

$D = \{x \mid x \neq 0\}$
 $R = \{y \mid y \neq -3\}$

18. Identify asymptotes and x and y intercepts.

$$f(x) = \frac{x}{x-5}$$

$P(x) \rightarrow x=0$
 $Q(x) \rightarrow x=5$ } zeros

$$\boxed{VA=5}$$

$P(x)$ & $Q(x)$ have same power

$$\text{so } HA = \frac{1}{1} = 1$$

x-intercept $(0,0)$

y-intercept $(0,0)$

$$f(x) = \frac{0}{0-5} = \frac{0}{-5} = 0$$

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Camilla Rothe



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

- ePub, PDF, MOBI, and More
 - Algebra 2 Chapter 5 Resource Book Answers Compatibility with Devices
 - Algebra 2 Chapter 5 Resource Book Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Algebra 2 Chapter 5 Resource Book Answers
 - Highlighting and Note-Taking Algebra 2 Chapter 5 Resource Book Answers
 - Interactive Elements Algebra 2 Chapter 5 Resource Book Answers
 8. Staying Engaged with Algebra 2 Chapter 5 Resource Book Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Algebra 2 Chapter 5 Resource Book Answers
 9. Balancing eBooks and Physical Books Algebra 2 Chapter 5 Resource Book Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Algebra 2 Chapter 5 Resource Book Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Algebra 2 Chapter 5 Resource Book Answers
 - Setting Reading Goals Algebra 2 Chapter 5 Resource Book Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Algebra 2 Chapter 5 Resource Book Answers
 - Fact-Checking eBook Content of Algebra 2 Chapter 5 Resource Book Answers
 - 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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web to obtain the velocity of a projectile using a ballistic pendulum the length of the pendulum had to be measured as well as the mass of the pendulum projectile and the pendulum swing angle there were two methods used to complete this experiment and obtain the value of the velocity

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arm pendulum the ball lodges itself in the barrel and they swing together up to some maximum height energy is not conserved in the completely inelastic collision but linear momentum is

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web experimental technique 1 use foam to set up a trap to catch the projectile see image 1 2 set up the pendulum and projectile launcher with the rotary motion sensor see image 2 3 3 measure the mass of the pendulum and the projectile as well as the length of the pendulum 4 prepare data studio for the experiment 5

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