

Grade 10 Academic Math - EXAM REVIEW

UNIT 1 – Linear Systems

- Solve each system of equations by substitution.

a) $3x + 5y = 2$	b) $3x + 2y = 9$	c) $2x + y = 4$
$x + 4y = -4$	$-x + 3y = 8$	$4x + 9 = -2y$
- Solve each system of equations by elimination.

a) $4x + 5y = -3$	b) $5x + 4y = 5$	c) $2x + 5y = 3$
$4x + 9y = 1$	$3x - 2y = 3$	$4x + 10y - 6 = 0$
- When solving a system of linear equations using elimination, the equation $0 = 5$ is obtained. Explain what this means.
- Carlos invested in a term deposit that paid 4% interest per annum and in a municipal bond that paid 6% interest per annum. If he invested a total of \$13 000 and earned \$700 interest in a year, how much did he invest at each rate?
- A chemistry teacher needs to make 20L of a 36% sulfuric acid solution. The acid solutions available are 30% sulfuric acid solution and 40% sulfuric acid solution. How many litres of each solution should be mixed to make the 36% solution?
- It took a patrol boat 3h to travel 48km up a river against the current and 2h for the return trip with the current. Find the speed of the boat in still water and the speed of the current.

UNIT 2 – Quadratic Expressions

- Expand and simplify

a) $3x(4x + 7) - 2(x^2 - 5x)$	b) $(5y + 1)(y - 7)$	c) $3(x+1)(x-1) - (x+1)^2$
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- Factor completely.

a) $24xy^2 - 12xy + 36x^2y$	b) $3ax^2 - 21axy + 30ay^2$	c) $12x^2 - 11x + 2$
d) $y^2 - 16$	e) $25a^2 - 49b^2$	f) $16x^2 - 36$
g) $6m^2n^2 + 18m^2n - 9n^2$	h) $64x^2 - y^2$	i) $3x^2 - x - 14$
- A triangle has equal base and height. An expression for the base of the triangle is $2x - 6$. Find a simplified expression for the area of the triangle.
- The area of a rectangular lot is $3x^2 + 8x + 4$.
 - Determine the dimensions of the lot.
 - If the of value x is 4 metres, state the dimensions and the area of the lot.

UNIT 3 – Quadratic Relations

- For each of the following quadratic relations, state the vertex, axis of symmetry, direction of opening, maximum/minimum value, and possible y-values. Then describe all the transformation in words.

a) $y = -2(x+5)^2 - 1$	b) $y = x^2 + 2$	c) $y = -\frac{1}{4}(x-9)^2$
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- Determine the equation of a quadratic relation that is compressed vertically by a factor of $\frac{1}{4}$, reflected in the x-axis, and then translated 3 units to the left and 5 units down.
- Graph the following quadratic relations:

a) $y = 2(x + 5)^2 - 1$	b) $y = -\frac{1}{2}(x - 3)^2 + 7$
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Table of Contents Grade 10 Academic Math Linear Systems Practice Test A

1. Understanding the eBook Grade 10 Academic Math Linear Systems Practice Test A
 - The Rise of Digital Reading Grade 10 Academic Math Linear Systems Practice Test A
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Academic Math Linear Systems Practice Test A
 - 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 Grade 10 Academic Math Linear Systems Practice Test A
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 10 Academic Math Linear Systems Practice Test A
 - Personalized Recommendations
 - Grade 10 Academic Math Linear Systems Practice Test A User Reviews and Ratings
 - Grade 10 Academic Math Linear Systems Practice Test A and Bestseller Lists
5. Accessing Grade 10 Academic Math Linear Systems Practice Test A Free and Paid eBooks
 - Grade 10 Academic Math Linear Systems Practice Test A Public Domain eBooks
 - Grade 10 Academic Math Linear Systems Practice Test A eBook Subscription Services
 - Grade 10 Academic Math Linear Systems Practice Test A Budget-Friendly Options

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