

SAXON MATH ALGEBRA 1 ANSWERS

LESSON 55

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Saxon Math Algebra 1 Lesson 55: Systems of Equations

Question 1: Solve the system of equations:

$$2x + 3y = 11$$

$$x - 2y = 5$$

Answer:

- Multiply the second equation by 2 to get: $2x - 4y = 10$.
- Add this to the first equation: $4x - y = 21$.
- Solve for x: $x = 6$.
- Substitute $x = 6$ into the first equation: $2(6) + 3y = 11$.
- Solve for y: $y = 1$.

Therefore, the solution to the system of equations is $x = 6$, $y = 1$.

Question 2: Solve the system of equations by substitution:

$$x - y = 3$$

$$2x + y = 7$$

Answer:

- Solve the first equation for x: $x = y + 3$.
- Substitute $x = y + 3$ into the second equation: $2(y + 3) + y = 7$.

- Solve for y : $y = 1$.
- Substitute $y = 1$ into $x = y + 3$: $x = 1 + 3 = 4$.

Therefore, the solution to the system of equations is $x = 4$, $y = 1$.

Question 3: Solve the system of equations graphically:

$$y = 2x - 1$$

$$y = -x + 4$$

Answer:

- Plot the graphs of the two equations on the same coordinate plane.
- The point of intersection is the solution to the system of equations.
- The point of intersection is $(1, 1)$.

Therefore, the solution to the system of equations is $x = 1$, $y = 1$.

Question 4: Solve the system of equations:

$$3x + 2y - z = 5$$

$$x - y + 2z = 7$$

$$2x - y + 3z = 8$$

Answer:

- Use elimination to solve the system of equations.
- Add the first two equations to get: $4x + y + z = 12$.
- Subtract the third equation from the first two equations to get: $x + 3y - 4z = -3$ and $3y - 5z = -5$.
- Solve for y in the second and third equations: $y = (4z + 3)/3$ and $y = 5/3 + 5z/3$.
- Substitute $y = 5/3 + 5z/3$ into the first equation: $4x + 5/3 + 5z/3 + z = 12$.
- Solve for x : $x = 27/4 - 5z/4$.

Therefore, the solution to the system of equations is $x = 27/4 - 5z/4$, $y = 5/3 + 5z/3$, z (free).

Question 5: Solve the system of equations:

$$x + y + z = 6$$

$$x - y + z = 2$$

$$x + y - z = 4$$

Answer:

- Add the three equations to get: $3x = 12$.
- Solve for x : $x = 4$.
- Substitute $x = 4$ into the first equation: $4 + y + z = 6$.
- Solve for y : $y = 2 - z$.
- Substitute $y = 2 - z$ and $x = 4$ into the second equation: $4 - (2 - z) + z = 2$.
- Solve for z : $z = 2$.

Therefore, the solution to the system of equations is $x = 4$, $y = 0$, $z = 2$.

What Happened to Rory Feek's First Wife? KGB Answers

Rory Feek, one half of the country music duo Joey + Rory, has been open about the loss of his first wife, Tamara Gilmer, to cancer in 2002. Gilmer was a talented vocalist and songwriter who performed alongside Feek in the early days of their musical career.

Did Gilmer Have Children with Rory?

No, Gilmer and Feek did not have any children together. However, Feek later remarried and had two daughters with his current wife, Joey Martin Feek.

What Type of Cancer Did Gilmer Have?

Gilmer was diagnosed with stage 4 colon cancer in 1999. Despite undergoing chemotherapy and other treatments, she passed away in 2002 at the age of 34.

How Did Gilmer's Death Impact Rory?

Gilmer's death was a devastating loss for Rory. He describes her as the love of his life and credits her with inspiring his passion for music. Feek's songs often touch on

themes of love, loss, and heartbreak.

What's Rory's Relationship with Gilmer's Family Now?

Rory has maintained a close relationship with Gilmer's family, especially her parents, John and Janice Gilmer. He often visits their home in Mississippi and has collaborated with them on musical projects. Feek has also established a scholarship fund in Gilmer's memory to support aspiring artists.

To Engineer is Human

Technology has become an inextricable part of our lives, from the smartphones in our pockets to the self-driving cars on our roads. As we continue to push the boundaries of innovation, we must grapple with the profound ethical questions that arise from our technological advancements.

Are we playing God?

Engineering has long been seen as a distinctly human endeavor. We wield the power to shape our world, to create and destroy at will. Some argue that this power comes with a profound responsibility, one that we must exercise with utmost care. They fear that by manipulating nature and human biology, we may be overstepping our bounds and playing God.

Can technology improve human nature?

Technology has the potential to enhance human capabilities in countless ways. From genetic engineering to artificial intelligence, we are constantly seeking ways to improve our bodies, minds, and experiences. But what are the limits of these enhancements? Can technology truly make us better people? Or will it simply create new forms of inequality and exploitation?

Who controls our technology?

As technology becomes more powerful and pervasive, questions arise about who has the right to control it. Should corporations have exclusive access to cutting-edge advancements? Should governments regulate the development and use of technologies that could have far-reaching societal impacts? How can we ensure that

technology serves the interests of all, not just the privileged few?

Engineering for a sustainable future

Our technological choices have profound implications for the environment. Climate change, resource depletion, and pollution are all urgent challenges that require innovative solutions. As engineers, we have a responsibility to develop technologies that minimize our impact on the planet and ensure a sustainable future for generations to come.

The ethics of technology are a complex and evolving field. As engineers, we have a duty to approach our work with a deep understanding of the ethical implications of our creations. By embracing a human-centered approach to engineering, we can harness the power of technology to create a better, more just, and sustainable world.

Managerial Economics: A Comprehensive Q&A by Dr. Keat Young

Q: What is the definition of managerial economics?

A: Managerial economics is a branch of economics that applies microeconomic principles and models to managerial decision-making. It focuses on optimizing organizational outcomes by analyzing concepts such as production, costs, demand, and pricing.

Q: What are the key areas covered in managerial economics?

A: Core topics in managerial economics include demand analysis, production and cost analysis, capital budgeting, risk and uncertainty analysis, pricing strategies, and market structures. These concepts provide a framework for evaluating business opportunities, allocating resources, and maximizing profits.

Q: How does managerial economics differ from traditional economics?

A: Traditional economics focuses on broad economic phenomena, such as inflation, unemployment, and economic growth. Managerial economics, on the other hand, emphasizes the application of economic tools to specific business problems, such as determining optimal production levels or setting prices to maximize revenue.

Q: What are the benefits of studying managerial economics?

A: Studying managerial economics equips individuals with the analytical skills and knowledge necessary to make informed decisions in a business environment. It provides a roadmap for solving complex business problems, forecasting market trends, and evaluating investments.

Q: What is the role of Dr. Keat Young in the field of managerial economics?

A: Dr. Keat Young is a renowned expert in managerial economics. His foundational textbook, "Managerial Economics: A Problem Solving Approach," is widely recognized as a comprehensive and accessible guide to the subject. Dr. Young's research and contributions have significantly advanced the application of economic principles to managerial decision-making.

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