

Name _____

Powering Up with Polynomials: Unleashing Mathematical Superheroes

Open-Ended Response Answer Key

1. Yes, polynomials are used to model investment growth over time and calculate interest rates, helping individuals and businesses make informed financial decisions.
2. Polynomials are used to create smooth curves and thrilling loops, ensuring the safety and enjoyment of riders by modeling the ride's path, predicting its behavior, and optimizing its design.
3. Polynomials can be used in various fields such as finance, physics, engineering, and computer science, providing a wide range of applications and solutions to real-world problems.
4. Polynomials are compared to mathematical Swiss Army knives because they are equipped with a wide range of tools and capabilities, helping us navigate the complexities of the world around us and solve a diverse array of problems.

