

**Quarter 2: Remedial Performance Task 1**

Name:

Section:

Date given: 10/22/2024

**Objective:**

Students will demonstrate their understanding of polynomial functions and their graphical behavior by solving real-life problems and creating visual representations of polynomial graphs.

**Instructions:****1. Polynomial Function Illustration (7 points)**

Create a **visual representation** of a polynomial function of degree 3 or higher. You can use graphs, drawings, or digital illustrations. Include:

- The polynomial function equation (e.g.,  $f(x) = x^3 - 3x^2 + 2x$ ).
- The key features of the graph: intercepts, turning points, and behavior, and the general shape of the graph.
- Highlight the **end behavior** of the function, showing how the function behaves as  $x$  approaches  $+\infty$ ,  $-\infty$ .

**Example:**

Sketch the graph of  $f(x) = x^3 - 6x^2 + 9x$ . Label the x-intercepts, y-intercept, and turning points. Show how the graph behaves as  $x$  increases or decreases infinitely.

**2. Word Problem with a Polynomial Function (5 points)**

Write and solve a real-life word problem that can be modeled by a **polynomial function**.

- Explain the scenario and show how the polynomial function is used to model it.
- Solve the problem and interpret the solution.

**Example:**

"A ball is thrown upwards from a height of 10 meters with a velocity that follows the equation  $h(t) = -5t^2 + 20t + 10$ , where  $h(t)$  is the height of the ball at time  $t$  seconds. How long does it take for the ball to hit the ground? Show all work and explain the result."

- 
- Analyze the function's
- 
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**Example:**

Analyze the polynomial function  $f(x) = -2x^4 + 8x^3 - 5x^2 + 10x - 4$ . Draw the graph, label the key features, and describe the turning points, end behavior, and where the graph increases or decreases.

**Rubric:**

Criteria	Excellent (5)	Good (4)	Satisfactory (3)	Needs Improvement (2-1)	Points
<b>Understanding of Polynomial Functions</b>	Accurately illustrates a polynomial graph and explains all key features clearly.	Mostly correct graph with minor errors, key features mostly labeled correctly.	Graph shown but with some errors or missing labels on key features.	Incorrect graph or missing key features.	<b>/7</b>
<b>Polynomial Word Problem</b>	Creates a realistic and complex word problem, solves it correctly with clear explanation.	Creates a realistic problem and solves it with minor errors in explanation.	Word problem is simple with some errors in solving or unclear explanation.	Incorrect or unrealistic word problem, lacks solution.	<b>/5</b>
<b>Graph Analysis and Interpretation</b>	Provides a deep analysis of the graph, correctly identifying all roots, turning points, and intervals of increase/decrease.	Good analysis with mostly correct identification of key features and intervals.	Basic analysis with some errors or missing details on roots or turning points.	Incorrect or incomplete analysis, poor understanding of key features.	<b>/8</b>
<b>Creativity and Presentation</b>	Illustrations/models are highly creative, visually appealing, and aid understanding.	Illustrations/models are clear and support understanding.	Basic visuals that somewhat aid understanding.	Minimal or unclear visuals that do not aid understanding.	<b>/5</b>

Good luck, and remember to show your work on each part!

# Performance Tasks For Simplifying Polynomials

**Nanci N. Smith**



## **Performance Tasks For Simplifying Polynomials:**

## The Enigmatic Realm of **Performance Tasks For Simplifying Polynomials**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Performance Tasks For Simplifying Polynomials** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those that partake in its reading experience.

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