

## Section 5-9 Transforming Polynomial Functions

### Objectives

Students will be able to:

Transform polynomial graphs

**Essential Understanding:** The graph of a function  $af(x-h) + k$  is a vertical stretch or compression by the factor  $|a|$ , a horizontal shift of  $h$  units and a vertical shift of  $k$  units of the graph  $y = f(x)$

### Lesson

Transforming  $y = x^3$

What is the equation of the graph of  $y = x^3$  under a vertical compression by a factor of  $\frac{1}{4}$ , followed by a reflection across the  $x$ -axis, a horizontal translation of 2 to the right and a vertical translation of 5 units up?

How many real zeros will the function  $y = -a(x-h)^3 + k$  have, solve for  $x$ . (1 real zero)

What are all the real zeros of  $y = 3(x-1)^3 + 6$

You cannot obtain a cubic function in standard form by transforming the parent function using stretches, reflections, and translations.

Constructing a Quartic Function with Two Real Zeros

What is the quartic function with only two real zeros,  $x = 4$ ,  $x = 8$ ?

#### Method 1

Start by graphing the parent. What is the difference between the two zeros? How far do you need to translate the graph down for it to be 4 units apart? Now where are the zeros at? How far do you need to move the graph left or right to the zeros will be at 4 and 8?

#### Method 2

$$(x-4)(x-8)(x+1)^2$$

Multiply by a quadratic with no real zeros to find another function

#### Power Function

$Y = ax^b$  in this form,  $y$  varies directly with  $x$  (is proportional with  $x$ ) and  $a$  is the constant of proportionality.

# Transforming Polynomial Functions 5 9 Lesson

**JS Bruner**



## **Transforming Polynomial Functions 5 9 Lesson:**

## Decoding **Transforming Polynomial Functions 5 9 Lesson**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Transforming Polynomial Functions 5 9 Lesson**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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