

# ALGEBRA 1

## TOPIC 1: SIMPLIFYING EXPRESSIONS

**Problem 1:** Simplify the expression  $\frac{5^{x+2} - 15(5^{x-1})}{10(5^{x+1})}$ .

- A.  $2/5$
- B.  $5^x$

- C.  $11/25$
- D.  $5x$

**Solution:**

$$\begin{aligned}\frac{5^{x+2} - 15(5^{x-1})}{10(5^{x+1})} &= \frac{5^x \cdot 5^2 - 15(5^x \cdot 5^{-1})}{10(5^x \cdot 5)} \\ &= \frac{5^x(25 - \frac{15}{5})}{5^x(50)} \\ &= \frac{22}{50} \\ &= \frac{11}{25}\end{aligned}$$

**Another Solution:** Assume a value for  $x$ : say  $x = 2$

Substitute to the given:  $\frac{5^{x+2} - 15(5^{x-1})}{10(5^{x+1})} = \frac{5^{2+2} - 15(5^{2-1})}{10(5^{2+1})} = 11/25$

**Problem 2:** Which of the following is identical to  $\frac{18}{b - \sqrt{b^2 - 9}}$  when the denominator is rationalized?

A.  $2(b + \sqrt{b^2 - 9})$

B.  $2b$

C.  $\frac{2(b - \sqrt{b^2 - 9})}{b}$

D.  $\sqrt{b^2 - 9}$

**Solution:**

$$\begin{aligned}\frac{18}{b - \sqrt{b^2 - 9}} &= \frac{18}{b - \sqrt{b^2 - 9}} \cdot \frac{b + \sqrt{b^2 - 9}}{b + \sqrt{b^2 - 9}} \\ &= \frac{18(b + \sqrt{b^2 - 9})}{b^2 - (b^2 - 9)}\end{aligned}$$

# Algebra Part I

**S Nieto**



## **Algebra Part I:**

## Reviewing **Algebra Part I**: Unlocking the Spellbinding Force of Linguistics

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