

## 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:**

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

# Answers For Plato Algebra Part B

**J Rink**



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Answers For Plato Algebra Part B**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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