NC EMPT'S
QUESTION
of the week

north carolina
EARLY
math

Question 16
December 16, 2024

If a rectangular box has sides of length $x, x + 4, x - 5$ $(where\ x > 5)$, the volume of the box is:

A. $x^3 - x^2 - 20x$ B. $x^3 + x^2 - 20x$ C. $x^3 - x^2 - 20$

D. $x^3 - 20$ E. $x^3 - x - 20$

Last Week's Answer

When $x = 2$, find the value of the expression: $\dfrac{-3|x-2|}{4}$

A. 3 **B. 0** C. $-\dfrac{3}{4}$ D. -3 E. None of these.

Solution:

$$\frac{-3|x - 2|}{4} = \frac{-3|2 - 2|}{4} = \frac{-3|0|}{4} = \frac{-3 \cdot 0}{4} = \frac{0}{4} = 0$$

Each week, we'll reveal the answer to the previous week's question!