

NC EMPT'S
QUESTION?
of The week

If $f(x) = 2^{-x} + x - 4$, find $f(-1)$

- A. $-1(2^{-x} + x - 4)$ B. -3 C. $2^{-x} - x + 4$ D. $-\frac{9}{2}$ E. -1

Last Week's Answer

Find an equivalent form of $\frac{2}{x+3} + \frac{1}{x-3}$

- A. $\frac{3x-1}{x^2-3}$ B. $\frac{3}{2x}$ C. $\frac{3}{x^2-9}$ D. $\frac{3x-3}{x^2-9}$ E. $\frac{x-1}{x^2-1}$

Solution:

$$\frac{2}{x+3} + \frac{1}{x-3} = \frac{2}{x+3} \cdot \frac{x-3}{x-3} + \frac{1}{x-3} \cdot \frac{x+3}{x+3} = \frac{2x-6}{(x+3)(x-3)} + \frac{x+3}{(x+3)(x-3)} = \frac{3x-3}{(x+3)(x-3)} = \frac{3x-3}{x^2-9}$$

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

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