

NC EMPT'S
QUESTION?
of The week

When buying an item at a sporting goods store, the company advertises that products will be 10% higher than those purchased on their website. If you buy an item in their store for \$385, what would it cost had you bought it on their website?

- A. \$38.50 B. \$346.50 C. \$350.00 D. \$388.89 E. \$423.50

Last Week's Answer

Solve this system for x: $\begin{cases} 3x - 5y = -12 \\ 6x + 8y = -24 \end{cases}$

- A. 4 B. 2 C. 0 D. -1 E. -4

Solution:

Multiply the first equation by -2 to get $-6x + 10y = 24$

Then solve using the elimination method:

$$\begin{cases} -6x + 10y = 24 \\ 6x + 8y = -24 \end{cases}$$

$$\hline 18y = 0$$

$$y = 0$$

Substitute $y = 0$ in the first equation.

$$3x - 5(0) = -12$$

$$x = -4$$

Solution is $(-4, 0)$ and the x - value is -4 .

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

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