

NC EMPT'S
QUESTION?
of The week

The graph of $x^2 + y^2 = 25$ and the graph of $x - 4 = 0$ are drawn on the same set of axes. A point of intersection of the graphs is:

- A. (5,0) B. (-4,-3) C. (4,-3) D. (-3,4) E. (4,-4)

Last Week's Answer

Simplify this expression: $\frac{1}{2}\sqrt{112} - \sqrt{28} + 2\sqrt{63}$

- A. $4\sqrt{7}$ B. $6\sqrt{7}$ C. $7\sqrt{7}$ D. $8\sqrt{7}$ E. $10\sqrt{7}$

Solution:

$$\begin{aligned} & \frac{1}{2}\sqrt{112} - \sqrt{28} + 2\sqrt{63} \\ &= \frac{1}{2}\sqrt{16 \cdot 7} - \sqrt{4 \cdot 7} + 2\sqrt{9 \cdot 7} \\ &= \frac{1}{2}(4)\sqrt{7} - 2\sqrt{7} + 2(3)\sqrt{7} \\ &= 2\sqrt{7} - 2\sqrt{7} + 6\sqrt{7} \\ &= 6\sqrt{7} \end{aligned}$$

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

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