

NC EMPT'S
QUESTION?
of the week

Simplify: $64 - \sqrt{-100}$

- A. 54 B. $64 - 10i$ C. $64 + 10i$
D. $64 - 100i$ E. 74

Last Week's Answer

29. Multiply: $(9x - 5y)^2$

- A. $81x^2 - 90xy + 25y^2$ B. $9x^2 + 25y^2$ C. $81x^2 + 25y^2$
D. $9x^2 - 90xy + 25y^2$ E. $81x^2 - 25y^2$

Solution: To square the binomial, write it twice, and then multiple using FOIL.

$$\begin{aligned} &(9x - 5y)^2 \\ &= (9x - 5y)(9x - 5y) \\ &= 81x^2 - 45xy - 45xy + 25y^2 \\ &= 81x^2 - 90xy + 25y^2 \end{aligned}$$

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