

Use the rule $\sqrt{ab} = \sqrt{a}\sqrt{b}$ and the definition of i .

$$\begin{aligned}\sqrt{-450} &= \sqrt{450 \cdot (-1)} = \sqrt{450} \cdot \sqrt{-1} = \sqrt{225} \sqrt{2} \sqrt{-1} = \\ 15\sqrt{2}i &= 15i\sqrt{2}\end{aligned}$$