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▶ Start

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$$\left(\sqrt{a}\sqrt{b}\right)^2$$

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$$\left(\sqrt{a}\sqrt{b}\right)^2 = (\sqrt{a})^2 (\sqrt{b})^2$$

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$$\begin{aligned} \left(\sqrt{a}\sqrt{b}\right)^2 &= (\sqrt{a})^2 (\sqrt{b})^2 \\ &= ab \end{aligned}$$

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$$x^2 = ab$$

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$$x^2 = ab \quad x = \sqrt{ab}, -\sqrt{ab}$$

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$$\sqrt{a}\sqrt{b} > 0 \text{ 이므로}$$

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END