

Only like n^{th} roots with like **radicands** can be added or subtracted

$$\sqrt[3]{81} + 5\sqrt[3]{3}$$

$$\sqrt[5]{64} - 4\sqrt[5]{2}$$

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$$6\sqrt[3]{x^4y} + 5x\sqrt[3]{xy}$$

$$\sqrt[4]{81a^2b^5} - 2b\sqrt[4]{a^2b}$$

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$$4(\textcolor{red}{8})^{\frac{1}{3}} + \textcolor{violet}{2}(\textcolor{red}{8})^{\frac{1}{3}}$$

$$24^{\frac{1}{2}} - \textcolor{red}{6}^{\frac{1}{2}}$$

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$$7\textcolor{red}{x}^{\frac{1}{5}} + \textcolor{violet}{3}\textcolor{red}{x}^{\frac{1}{5}}$$

$$(\textcolor{red}{x}^2 \cdot \textcolor{blue}{y})^{\frac{1}{2}} - (2\textcolor{red}{x}^{\frac{1}{2}} \cdot \textcolor{blue}{y}^{\frac{1}{4}})^2$$

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