

Adding and Subtracting Radical Expressions

Simplify each expression.

1) $2\sqrt{3} - 5\sqrt{27}$

2) $9\sqrt[3]{6} + \sqrt[3]{6} - 2\sqrt[3]{24}$

3) $4\sqrt[3]{40} + 8\sqrt[3]{5}$

$3\sqrt{50}$

5) $\sqrt[3]{24} + 9\sqrt{7} +$

$\sqrt[3]{96}$

7) $-7\sqrt[3]{9} - 3\sqrt[3]{9}$

8) $-\sqrt{10} + \sqrt{40} - 8\sqrt{11}$

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Adding and Subtracting Radical Expressions

Simplify each expression.

1) $2\sqrt{3} - 5\sqrt{27}$

$$\underline{-13\sqrt{3}}$$

2) $9\sqrt[3]{6} + \sqrt[3]{6} - 2\sqrt[3]{24}$

$$\underline{10\sqrt[3]{6} - 4\sqrt[3]{3}}$$

3) $4\sqrt[3]{40} + 8\sqrt[3]{5}$

$$\underline{16\sqrt[3]{5}}$$

5) $\sqrt[3]{24} + 9\sqrt{7} +$

$$\underline{2\sqrt[3]{3} + 11\sqrt{7}}$$

7) $-7\sqrt[3]{9} - 3\sqrt[3]{9}$

$$\underline{-10\sqrt[3]{9}}$$

8) $-\sqrt{10} + \sqrt{40} - 8\sqrt{11}$

$$\underline{\sqrt{10} - 8\sqrt{11}}$$

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