

Name: \_\_\_\_\_

## Adding and Subtracting Radical Expressions

Simplify each expression.

1)  $-15\sqrt{40} + 4\sqrt{10} + 9\sqrt{40}$

2)  $19\sqrt[3]{13} - 30\sqrt[3]{13} + \sqrt[3]{13}$

3)  $9\sqrt[3]{96} + 23\sqrt[3]{12}$

$3\sqrt{28}$

5)  $17\sqrt{11} - 2\sqrt{6}$

$\sqrt{3}$

7)  $-2\sqrt[3]{80} + 4\sqrt[3]{10}$

8)  $\sqrt[3]{54} - \sqrt[3]{24} - 31\sqrt[3]{3}$

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## Adding and Subtracting Radical Expressions

Simplify each expression.

1)  $-15\sqrt{40} + 4\sqrt{10} + 9\sqrt{40}$

$-8\sqrt{10}$

2)  $19\sqrt[3]{13} - 30\sqrt[3]{13} + \sqrt[3]{13}$

$-10\sqrt[3]{13}$

3)  $9\sqrt[3]{96} + 23\sqrt[3]{12}$

$41\sqrt[3]{12}$

5)  $17\sqrt{11} - 2\sqrt{6}$

$43\sqrt{11} - 2\sqrt{6}$

7)  $-2\sqrt[3]{80} + 4\sqrt[3]{10}$

$0$

8)  $\sqrt[3]{54} - \sqrt[3]{24} - 31\sqrt[3]{3}$

$3\sqrt[3]{2} - 33\sqrt[3]{3}$

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