

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

## Adding and Subtracting Radical Expressions

Simplify each expression.

1)  $9\sqrt{15} + 6\sqrt{15}$

2)  $4\sqrt[3]{56} - 3\sqrt[3]{7}$

3)  $11\sqrt{3} - 3\sqrt{3} +$

$2\sqrt[3]{2} - \sqrt[3]{54}$

5)  $10\sqrt[3]{9} - 8\sqrt[3]{72}$

$+ 21\sqrt{10} + 17\sqrt{10}$

7)  $20\sqrt{2} - 12\sqrt{6} - 16\sqrt{2}$

8)  $-2\sqrt{12} + \sqrt{48}$

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## Adding and Subtracting Radical Expressions

Simplify each expression.

1)  $9\sqrt{15} + 6\sqrt{15}$

$15\sqrt{15}$

2)  $4\sqrt[3]{56} - 3\sqrt[3]{7}$

$5\sqrt[3]{7}$

3)  $11\sqrt{3} - 3\sqrt{3} +$

$8\sqrt{3} + 4\sqrt{3}$

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$2\sqrt[3]{2} - \sqrt[3]{54}$

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

5)  $10\sqrt[3]{9} - 8\sqrt[3]{72}$

$-6\sqrt[3]{9}$

$+ 21\sqrt{10} + 17\sqrt{10}$

$38\sqrt{10}$

7)  $20\sqrt{2} - 12\sqrt{6} - 16\sqrt{2}$

$4\sqrt{2} - 12\sqrt{6}$

8)  $-2\sqrt{12} + \sqrt{48}$

$0$