

Simplifying Radical Expressions

Simplify each expression.

1) $-4\sqrt{6} - \sqrt{6} + \sqrt{216}$

2) $3\sqrt[3]{243} - 4\sqrt[3]{9} + 3\sqrt[3]{72}$

3) $\sqrt{8} - 2\sqrt{12} - 4$

$\times \sqrt[3]{125} \times \sqrt{4}$

5) $3\sqrt[3]{192} + 2\sqrt[3]{37}$

$\sqrt{12} \times \sqrt{9}$

7) $-\frac{\sqrt[3]{189}}{3\sqrt[3]{7}}$

8) $4\sqrt{20} + \sqrt{81} - 3\sqrt{45}$

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Simplifying Radical Expressions

Simplify each expression.

1) $-4\sqrt{6} - \sqrt{6} + \sqrt{216}$

$\sqrt{6}$

2) $3\sqrt[3]{243} - 4\sqrt[3]{9} + 3\sqrt[3]{72}$

$11\sqrt[3]{9}$

3) $\sqrt{8} - 2\sqrt{12} - 4\sqrt{18}$

$-10\sqrt{2} - 4\sqrt{3}$

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$\times \sqrt[3]{125} \times \sqrt{4}$

360

5) $3\sqrt[3]{192} + 2\sqrt[3]{375}$

$22\sqrt[3]{3}$

$12 \times \sqrt{9}$

54

7) $-\frac{\sqrt[3]{189}}{3\sqrt[3]{7}}$

-1

8) $4\sqrt{20} + \sqrt{81} - 3\sqrt{45}$

$9 - \sqrt{5}$