



Radicals - Adding and Subtracting - Simplification (Values Only)

1 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{12} - \sqrt{75} + \sqrt{63}$$

A $\sqrt{2} - 5\sqrt{2} + 4\sqrt{5}$

B $2\sqrt{3} - 5\sqrt{3} + 3\sqrt{7}$

3 Simplify the radical expressions to prepare for adding or subtracting $\sqrt{8} + \sqrt{8} - \sqrt{125}$

A $2\sqrt{2} + 5\sqrt{4} - 5\sqrt{5}$

B $2\sqrt{2} + 2\sqrt{2} - 5\sqrt{5}$

5 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt[3]{320} - \sqrt[3]{40} + \sqrt[3]{135}$$

A $2\sqrt[3]{4} - \sqrt[3]{8} + 3\sqrt[3]{5}$

B $4\sqrt[3]{5} - 2\sqrt[3]{5} + 3\sqrt[3]{5}$

7 Simplify the radical expressions to prepare for adding or subtracting $\sqrt{12} - \sqrt{75} + \sqrt{8}$

A $1 - 5\sqrt{3} + 2\sqrt{2}$

B $2\sqrt{3} - 5\sqrt{3} + 2\sqrt{2}$

2 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{112} - \sqrt{20} - \sqrt{125}$$

A $4\sqrt{7} - 2\sqrt{5} - 5\sqrt{5}$

B $2\sqrt{10} - \sqrt{8} - 4\sqrt{6}$

4 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt[3]{40} - \sqrt[3]{54} + \sqrt[3]{40}$$

A $4\sqrt[3]{8} - 3\sqrt[3]{2} + 2\sqrt[3]{5}$

B $2\sqrt[3]{5} - 3\sqrt[3]{2} + 2\sqrt[3]{5}$

6 Simplify the radical expressions to prepare for adding or subtracting $\sqrt{48} - \sqrt{32} - \sqrt{8}$

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

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

8 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt[3]{320} + \sqrt[3]{297} - \sqrt[3]{320}$$

A $4\sqrt[3]{5} + 3\sqrt[3]{11} - 4\sqrt[3]{5}$

B $4\sqrt[3]{5} + 3\sqrt[3]{11} - \sqrt[3]{4}$