mobius

Radicals - Adding and Subtracting - Simplification (Values Only)

1 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{44} + \sqrt{45} - \sqrt{176}$$

A	$2\sqrt{11} + 3\sqrt{5} - 4\sqrt{11}$
B	$2\sqrt{11} + \sqrt{8} - 4\sqrt{11}$

2 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt[3]{54} + \sqrt[3]{54} - \sqrt[3]{189}$$

A	$3\sqrt[3]{2} + 3\sqrt[3]{2} - 3\sqrt[3]{7}$
B	$2 + 3\sqrt[3]{2} - 3\sqrt[3]{7}$

3 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{99} + \sqrt{45} + \sqrt{275}$$

A	$\sqrt{10} + \sqrt{5} + 4\sqrt{14}$
B	$3\sqrt{11} + 3\sqrt{5} + 5\sqrt{11}$

4 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{63} + \sqrt{112} + \sqrt{63}$$

A	$3\sqrt{7} + 4\sqrt{7} + 3\sqrt{7}$
B	$3\sqrt{5} + 4\sqrt{7} + 3\sqrt{7}$

5 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt[3]{448} - \sqrt[3]{135} - \sqrt[3]{320}$$

A	$4\sqrt[3]{7} - 6\sqrt[3]{5} - 6\sqrt[3]{8}$
B	$4\sqrt[3]{7} - 3\sqrt[3]{5} - 4\sqrt[3]{5}$

6 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{99} + \sqrt{275} - \sqrt{44}$$

A	$3\sqrt{11} + 5\sqrt{11} - 2\sqrt{11}$
B	$\sqrt{13} + 6\sqrt{14} - 2\sqrt{11}$

7 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt[3]{192} + \sqrt[3]{192} - \sqrt[3]{24}$$

A	$2\sqrt[3]{6} + 1 - 2\sqrt[3]{3}$
B	$4\sqrt[3]{3} + 4\sqrt[3]{3} - 2\sqrt[3]{3}$

8 Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt[3]{128} - \sqrt[3]{448} + \sqrt[3]{448}$$

A	$4\sqrt[3]{2} - 4\sqrt[3]{7} + 4\sqrt[3]{7}$
B	$4\sqrt[3]{2} - 7\sqrt[3]{5} + 4\sqrt[3]{7}$