



Radicals - Adding and Subtracting from Simplified (Values and Variables)



1 Add or subtract the radical expressions

$$4\sqrt[3]{7q} + 2\sqrt[3]{2q^2r^2} + 3\sqrt[3]{7q}$$

A	B
$7\sqrt[3]{7q} + 2\sqrt[3]{2q^2r^2}$	$\sqrt[3]{7q} + 2\sqrt[3]{2q^2r^2}$

2 Add or subtract the radical expressions

$$5q\sqrt{11q} - 5q\sqrt{11q} + 2\sqrt{3wq}$$

A	$q\sqrt{11q} - 6q\sqrt{13q} + 2\sqrt{6w^2q}$
B	$2\sqrt{3wq}$

3 Add or subtract the radical expressions

$$2\sqrt[3]{3wn^2} - 4\sqrt[3]{3wn^2} + 2\sqrt[3]{5w^2n}$$

A	$-2\sqrt[3]{3wn^2} + 2\sqrt[3]{5w^2n}$
B	$-2\sqrt[3]{3n^2} + 2\sqrt[3]{5w^2n}$

4 Add or subtract the radical expressions

$$4y^2q\sqrt{2} + 4y\sqrt{5y} + 5y\sqrt{5y}$$

A	$6yq + 7y^3\sqrt{y} + 5y\sqrt{3y}$
B	$4y^2q\sqrt{2} + 9y\sqrt{5y}$

5 Add or subtract the radical expressions

$$4q\sqrt[3]{2q} - 4\sqrt[3]{11q^2t} + 4\sqrt[3]{11q^2t}$$

A	$4q\sqrt[3]{2q} - 3\sqrt[3]{11q^2t}$
B	$4q\sqrt[3]{2q}$

6 Add or subtract the radical expressions

$$4nx\sqrt[3]{11nx} - 4\sqrt[3]{3x^2} - 2nx\sqrt[3]{11nx}$$

A	$2nx\sqrt[3]{nx} - 4\sqrt[3]{3x^2}$
B	$2nx\sqrt[3]{11nx} - 4\sqrt[3]{3x^2}$

7 Add or subtract the radical expressions

$$2\sqrt{2} + 5r^2\sqrt{3} + 4\sqrt{2}$$

A	B
$4\sqrt{2} + 5r^2\sqrt{3}$	$6\sqrt{2} + 5r^2\sqrt{3}$

8 Add or subtract the radical expressions

$$2\sqrt[3]{5w^2q} - 2w\sqrt[3]{2q^2} + 2w\sqrt[3]{2q^2}$$

A	$2\sqrt[3]{5w^2q} - 5w\sqrt[3]{2q^2}$
B	$2\sqrt[3]{5w^2q}$