



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

1 Add or subtract the radical expressions

$$3p\sqrt[3]{7} - 3p\sqrt[3]{7} - 2y\sqrt[3]{11p}$$

A $2y\sqrt[3]{11p}$

B $4p\sqrt[3]{9} - 6p\sqrt[3]{10} - y\sqrt[3]{13p}$

2 Add or subtract the radical expressions

$$2y\sqrt[3]{7z} + 4y\sqrt[3]{7z} + 2y\sqrt[3]{3z^2y}$$

A $6y\sqrt[3]{7z} + 2y\sqrt[3]{3z^2y}$

B $y\sqrt[3]{7z} + 2y\sqrt[3]{3z^2y}$

3 Add or subtract the radical expressions

$$5rx^2\sqrt{7r} + 4r\sqrt{5x} - 5r\sqrt{5x}$$

A $5rx^2\sqrt{7r} - r\sqrt{5x}$

B $5rx^2\sqrt{7r} - r\sqrt{5x^2}$

4 Add or subtract the radical expressions

$$5wx\sqrt{2x} - 3wx\sqrt{11wx} + 3wx\sqrt{2x}$$

A $8wx\sqrt{2x^2} - 3wx\sqrt{11wx}$

B $8wx\sqrt{2x} - 3wx\sqrt{11wx}$

5 Add or subtract the radical expressions

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

A $6\sqrt[3]{5n^2} - 4n\sqrt[3]{2m}$

B $6m\sqrt[3]{5n^2} - 4n\sqrt[3]{2m}$

6 Add or subtract the radical expressions

$$2w\sqrt{7w} + 3p^2\sqrt{2} + 2p^2\sqrt{2}$$

A $2w\sqrt{7w} + 5p^2\sqrt{2}$

B $2w\sqrt{7w} + 5\sqrt{2}$

7 Add or subtract the radical expressions

$$3\sqrt[3]{2zr} + 2z\sqrt[3]{5r^2} + 2z\sqrt[3]{5r^2}$$

A $3\sqrt[3]{2zr} + 4\sqrt[3]{5r^2}$

B $3\sqrt[3]{2zr} + 4z\sqrt[3]{5r^2}$

8 Add or subtract the radical expressions

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

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

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