



## Radicals - Adding and Subtracting - Simplification (Values and Variables)

1

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{112p^4} - \sqrt{7p^4}$$

A  $4p^2\sqrt{7} - p^2\sqrt{7}$

B  $4p^2\sqrt{7} - 3p^2\sqrt{5}$

2

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{28t^2} - \sqrt{7t^2}$$

A  $4t^2\sqrt{7} - t\sqrt{7}$

B  $2t\sqrt{7} - t\sqrt{7}$

3

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{99r} + \sqrt{11r}$$

A  $3\sqrt{11r} + \sqrt{11r}$

B  $3\sqrt{11r} + \sqrt{10r^3}$

4

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{5} + \sqrt{20}$$

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

B  $\sqrt{4} + 2\sqrt{5}$

5

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{45q^4} - \sqrt{5q^4}$$

A  $q^4\sqrt{5} - q^2\sqrt{5}$

B  $3q^2\sqrt{5} - q^2\sqrt{5}$

6

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{11y^2} + \sqrt{44y^2}$$

A  $y\sqrt{11} + 2y\sqrt{11}$

B  $y\sqrt{12} + 5y^3\sqrt{10}$

7

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{44t^3} - \sqrt{11t^3}$$

A  $t\sqrt{13t} - t\sqrt{8t^2}$

B  $2t\sqrt{11t} - t\sqrt{11t}$

8

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{275z^4} - \sqrt{11z^4}$$

A  $z\sqrt{10} - z\sqrt{12}$

B  $5z^2\sqrt{11} - z^2\sqrt{11}$