



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

1

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{275r} + \sqrt{44r}$$

A  $5\sqrt{11r} + 2\sqrt{11r}$

B  $5\sqrt{11r} + 3\sqrt{8r}$

2

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{99} - \sqrt{176}$$

A  $3\sqrt{11} - 6\sqrt{13}$

B  $3\sqrt{11} - 4\sqrt{11}$

3

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{8t} + \sqrt{32t}$$

A  $2\sqrt{2t} + 7\sqrt{t^2}$

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

4

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{125} - \sqrt{45}$$

A  $5\sqrt{5} - 3\sqrt{5}$

B  $6\sqrt{2} - 3\sqrt{5}$

5

Simplify the radical expressions to prepare for adding or subtracting

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

A  $\sqrt{9} - 2\sqrt{11}$

B  $3\sqrt{11} - 2\sqrt{11}$

6

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{63} + \sqrt{175}$$

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

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

7

Simplify the radical expressions to prepare for adding or subtracting

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

A  $3\sqrt{11} + 4\sqrt{11}$

B  $3\sqrt{11} + 5\sqrt{11}$

8

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{32m^2} - \sqrt{8m^2}$$

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

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