



Add and subtract like radicals

- 1** Simplify the radical

$$\sqrt{3 \cdot 3}$$

A

1

B

3

C

$$\sqrt{3}$$

D

2

- 2** Simplify the radical

$$\sqrt{3^2 \cdot 3}$$

A

$$\sqrt{6}$$

B

$$\sqrt{3}$$

C

1

D

5

E

$$3\sqrt{3}$$

- 3** Add or subtract the radical expressions

$$2\sqrt{5} - \sqrt{5}$$

A

$$\sqrt{2}$$

B

$$\sqrt{5}$$

- 4** Add or subtract the radical expressions

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

A

$$7z\sqrt{5z}$$

B

$$z\sqrt{8z} + 5z\sqrt{3z}$$

- 5** Simplify, then add or subtract the radical expressions

$$\sqrt{175t^3} - \sqrt{63t^3}$$

A

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

B

$$2t\sqrt{7}$$

- 6** Simplify, then add or subtract the radical expressions

$$\sqrt{27} + \sqrt{12}$$

A

$$5\sqrt{3}$$

B

5

- 7** Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{2z^2} + \sqrt{18z^2}$$

A

$$z\sqrt{2} + 3z\sqrt{2}$$

B

$$z\sqrt{2} + 2z^3$$

- 8** Simplify, then add or subtract the radical expressions

$$\sqrt{32q^3} + \sqrt{8q^3}$$

A

$$6q\sqrt{2q}$$

B

$$2q^3\sqrt{4q^3} + q\sqrt{q}$$



Add and subtract like radicals

9

Simplify, then add or subtract the radical expressions

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

A

$$7\sqrt{7}$$

B

$$5\sqrt{10} + 5\sqrt{4}$$

10

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{28y} - \sqrt{7y}$$

A

$$2\sqrt{7y} - \sqrt{7y}$$

B

$$\sqrt{4y} - \sqrt{7y}$$

11

Simplify, then add or subtract the radical expressions

$$\sqrt{176y^2} - \sqrt{44y^2}$$

A

$$2y\sqrt{11}$$

B

$$2y^3\sqrt{11}$$

12

Simplify, then add or subtract the radical expressions

$$\sqrt{20} + \sqrt{125}$$

A

$$\sqrt{5}$$

B

$$7\sqrt{5}$$