

С

mobius

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



1	Simplify the radical expressions to
•	prepare for adding or subtracting

$$\sqrt{5b^2} - \sqrt{45}$$

A
$$b\sqrt{5}-3\sqrt{5}$$
 B $b\sqrt{5}-2$

$$\sqrt{2y^3} + \sqrt{50y^4}$$

$$egin{array}{cccc} {\sf A} & y\sqrt{2y}+3y^2\sqrt{2} \ {\sf C} & y\sqrt{2y}+5y^2\sqrt{2} \ \end{array}$$

2

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

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

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{12p^2}-\sqrt{3}$$

$$\sqrt{7} - \sqrt{175x^3}$$

A
$$5p\sqrt{2}-\sqrt{3}$$
 C $2n\sqrt{3}-\sqrt{3}$

 $b\sqrt{5} - \sqrt{4}$

$$4p\sqrt{6}-3\sqrt{2}$$

$$\sqrt{10}-5x\sqrt{7x}$$

B
$$\sqrt{7} - 5x\sqrt{7x}$$

C
$$2p\sqrt{3}-\sqrt{3}$$

C
$$2\sqrt{5} - 5x\sqrt{7x}$$

D
$$2\sqrt{6}-5x\sqrt{7x}$$

Simplify the radical expressions to prepare for adding or subtracting

$$\sqrt{7p^3}+\sqrt{28p^2}$$

$$\sqrt{18c^3} - \sqrt{2}$$

$$A \qquad p^2 \sqrt{10p} + 2p\sqrt{7}$$

$$p\sqrt{7p}+p^3\sqrt{5}$$

$$4c\sqrt{2c^3}-\sqrt{2}$$

$$2c\sqrt{c^3}-\sqrt{2}$$

$$oxed{\mathsf{C}} p\sqrt{7p} + 2p\sqrt{7}$$

D
$$3p^2\sqrt{5p}+2p\sqrt{7}$$

C
$$3c\sqrt{2c}-\sqrt{2}$$

$$c\sqrt{3c^2}-\sqrt{2}$$

Ε $p\sqrt{7p}+p^3\sqrt{9}$

7

$$\sqrt{2r^4} + \sqrt{32r^4}$$

$$\sqrt{3z} + \sqrt{75z^4}$$

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

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

$$\sqrt{3z} + 5z^2\sqrt{3}$$

B
$$\sqrt{3z} + 5z^4$$

C
$$r^2\sqrt{2}+2r^2$$

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

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

D
$$\sqrt{3z} + 7z^2$$