Name

Radicals - Multiplying Monomials with Binomials (Values and Variables)

1

Multiply the radical expressions and simplify the answer

$$2x^2\sqrt{3}\cdot(4xr\sqrt{2x}+\sqrt{3x})$$

A	$8x^4r\sqrt{6}+6x^2\sqrt{x}$	B	$8x^3r\sqrt{6x}+6x^2\sqrt{x}$
C	$8x^3r\sqrt{6x}+3x^2\sqrt{x}$	D	$8x^3r\sqrt{6x}+6x^3$
E	$8x^5r\sqrt{6x}+6x^2\sqrt{x}$		

2

Multiply the radical expressions and simplify the answer

$$2\sqrt[3]{5c^2n^2}\cdot(3\sqrt[3]{2n}-c\sqrt[3]{13})$$

A	$6n\sqrt[3]{10}-2c\sqrt[3]{65c^2n^2}$	B	$6n\sqrt[3]{10c^2}-2c\sqrt[3]{65c^2n^2}$
C	$6n\sqrt[3]{10c^2}-2cn\sqrt[3]{65c^2n}$	D	$6n\sqrt[3]{10c^2}-2c^2\sqrt[3]{65n^2}$

3

Multiply the radical expressions and simplify the answer

$$(5c\sqrt{13y}+yc\sqrt{2yc})\cdot 2y\sqrt{3}$$

A	$10yc\sqrt{39y}+2y^2c\sqrt{6y}$	B	$10yc\sqrt{39}+2y^2c\sqrt{6yc}$
C	$10yc\sqrt{39y}+2y^2c\sqrt{6yc}$	D	$10yc\sqrt{39y}+2y^3c\sqrt{6c}$
E	$10yc\sqrt{39y}+2y^2c\sqrt{yc}$		

4

Multiply the radical expressions and simplify the answer

$$(3x\sqrt{2b}-xb\sqrt{2xb})\cdot 2x^2b^2\sqrt{7}$$

A	$6x^3b^2\sqrt{14b}-2x^3b^3\sqrt{14xb}$	B	$6x^3b^3\sqrt{14b}-2x^3b^3\sqrt{14xb}$
C	$6x^3b^2\sqrt{14b}-2x^3b^3\sqrt{14b}$	D	$6x^3b^2\sqrt{14b}-2x^3b^4\sqrt{14x}$

5

Multiply the radical expressions and simplify the answer

$$(nd^2\sqrt{7}-2nd^2\sqrt{2})\cdot 2n\sqrt{13n}$$

A	$4n^2d^2\sqrt{91n}-4n^2d^2\sqrt{26n}$	B	$2n^2d^2\sqrt{91n}-4n^2d^2\sqrt{26n}$
C	$2n^2d^3\sqrt{91n}-4n^2d^2\sqrt{26n}$	D	$2n^2d^2\sqrt{91n}-4n^3d^2\sqrt{26n}$
E	$2n^2d^2\sqrt{91n}-4nd^2\sqrt{26n}$		

6

Multiply the radical expressions and simplify the answer

$$4p^2\sqrt{2z}\cdot(p^2\sqrt{11}+2z^2p\sqrt{3})$$

A	$4p^4\sqrt{22z}+8p^3z^3\sqrt{6z}$	B	$4p^4\sqrt{22z}+8p^3z^2\sqrt{6}$
C	$4p^4\sqrt{22z}+8p^3z^2\sqrt{6z}$	D	$p^4\sqrt{22z}+8p^3z^2\sqrt{6z}$

7

Multiply the radical expressions and simplify the answer

$$5d\sqrt{7dy}\cdot(d^2y^2\sqrt{2}-2\sqrt{2y})$$

A	$5d^3y^2\sqrt{14dy}-10d^3y\sqrt{14d}$	B	$5d^3y^3\sqrt{14dy}-10dy\sqrt{14d}$
C	$5d^3y^2\sqrt{14dy}-10dy\sqrt{14d}$	D	$5d^3y^2\sqrt{14dy}-10y\sqrt{14d}$
E	$5d^4y^2\sqrt{14y}-10dy\sqrt{14d}$		

8

Multiply the radical expressions and simplify the answer

$$(3zd\sqrt{3d}-d^2\sqrt{13})\cdot 4\sqrt{11zd}$$

A	$12zd^2\sqrt{33z}-4\sqrt{143zd}$	B	$12zd^2\sqrt{33z}-4d\sqrt{143zd}$
C	$12zd^2\sqrt{33z}-4d^2\sqrt{143zd}$	D	$12zd^2\sqrt{33z}-4d^3\sqrt{143zd}$
E	$12z^{-1}d^2\sqrt{33z}-4d^2\sqrt{143zd}$		