

Radicals and rational exponents



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1. Simplify $\sqrt{77}$.

A. 77

B. $\sqrt{77}$

C. $7\sqrt{11}$

D. $11\sqrt{7}$

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2.Simplify $\sqrt{43}$.

A. $\sqrt{43}$

B. 43

C. $4\sqrt{3}$

D. $3\sqrt{4}$

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3. Simplify $\sqrt{49}$.

- A. 49
- B. $2\sqrt{7}$
- C. $7\sqrt{2}$
- D. 7

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4.Simplify $\sqrt{98}$.

- A. $7\sqrt{2}$
- B. $2\sqrt{7}$
- C. $\sqrt{98}$
- D. $2\sqrt{49}$

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5.If $q^3 \cdot (q^4)^2 = q^x$, then which of the following is the value of x ?

- A. 9
- B. 11
- C. 18
- D. 19

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6. $(\frac{1}{2}) - 2 + 30$

What is the value of the above expression?

A. $-\frac{1}{4}$

B. $\frac{1}{4}$

C. 4

D. 5

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$$7.\sqrt[3]{24v^3w^8}$$

Which of the following is equivalent to the above expression?

- A. $2vw2\sqrt[3]{3}$
- B. $8vw2\sqrt[3]{3}$
- C. $2vw2\sqrt[3]{3w^2}$
- D. $8vw2\sqrt[3]{3w^2}$

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$$8.2\sqrt[3]{4} \cdot 2\sqrt[3]{2}$$

What is the value of the above expression?

- A. 4
- B. 8
- C. 16
- D. 32

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$$9. \frac{\sqrt[4]{y}\sqrt{y}}{\sqrt[3]{y}}$$

If the expression above is equal to y^M for $y \neq 0$,
then what is the value of M ?

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$$10. \frac{x}{\sqrt[3]{x}}$$

Which of the following is equivalent to the above expression for $x \neq 0$?

- A. 1
- B. $\sqrt[3]{x}$
- C. $\sqrt[3]{x^2}$
- D. x^3

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11. $\frac{y+y^2}{y^{-\frac{2}{3}}}$

Which of the following expressions is equivalent to the expression above assuming y is nonzero?

A. $y^{-\frac{2}{3}} + y^{-3}$

B. $y^{\frac{2}{3}} + y^3$

C. $y^{\frac{1}{3}} + y^{\frac{4}{3}}$

D. $y^{\frac{5}{3}} + y^{\frac{8}{3}}$

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$$12. \frac{\sqrt{8c^{20}}}{\sqrt{32c^4}}$$

Which of the following is equivalent to the above expression for $c \neq 0$?

- A. $\frac{1}{2}c^4$
- B. $\frac{1}{2}c^8$
- C. $\frac{1}{4}c^{16}$
- D. $\frac{1}{4}c^2\sqrt{c}$

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$$13. (x^{\frac{7}{4}} \cdot x^4)^4$$

Which of the following expressions is equivalent to the expression above assuming x is nonzero?

A. $x^{\frac{39}{4}}$

B. x^{11}

C. x^{23}

D. x^{28}

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$$14. \sqrt{2y^3z} \cdot \sqrt{8y^{13}z^8}$$

Which of the following is equivalent to the above expression for $y, z \geq 0$?

- A. $4y^4z^3$
- B. $8y^4z^3$
- C. $4y^8z^4\sqrt{z}$
- D. $8y^8z^4\sqrt{z}$

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$$15. \frac{\sqrt{75x^4}}{\sqrt{12x^7}}$$

Which of the following expressions is equivalent to the expression above?

A. $\frac{5x\sqrt{3x}}{6}$

B. $\frac{5\sqrt{3x}}{6x^2}$

C. $\frac{5}{2\sqrt{x}}$

D. $\frac{5\sqrt{x}}{2x^2}$

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