Name

Radicals - Convert Cube Root, Values and Variables, to Exponents - Negative

1 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{2b^4z^5}}$$

A $2^{-\frac{1}{3}} \cdot b^{-\frac{3}{3}} \cdot z^{-\frac{7}{3}}$

B $2^{-\frac{1}{3}} \cdot b^{-\frac{6}{3}} \cdot z^{-\frac{5}{3}}$

C $2^{-\frac{1}{3}} \cdot b^{-\frac{4}{3}} \cdot z^{-\frac{5}{3}}$

D $2^{\frac{1}{3}} \cdot b^{\frac{4}{3}} \cdot z^{\frac{5}{3}}$

2 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{5x^5p^4}}$$

A $20^{-\frac{1}{3}} \cdot x^{-\frac{5}{3}} \cdot p^{-\frac{4}{3}}$

B $5^{-\frac{1}{3}} \cdot x^{-\frac{6}{3}} \cdot p^{-\frac{6}{3}}$

C $5^{-\frac{1}{3}} \cdot x^{-\frac{7}{3}} \cdot p^{-\frac{3}{3}}$

D $5^{-\frac{1}{3}} \cdot x^{-\frac{5}{3}} \cdot p^{-\frac{4}{3}}$

E $5^{-\frac{1}{2}} \cdot x^{-\frac{5}{2}} \cdot p^{-\frac{4}{2}}$

3 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{7m^4z^5}}$$

A $7^{-\frac{1}{2}} \cdot m^{-\frac{4}{2}} \cdot z^{-\frac{5}{2}}$

B $14^{-\frac{1}{3}} \cdot m^{-\frac{4}{3}} \cdot z^{-\frac{5}{3}}$

C $7^{-\frac{1}{3}} \cdot m^{-\frac{4}{3}} \cdot z^{-\frac{5}{3}}$

D $7^{-\frac{1}{3}} \cdot m^{-\frac{4}{3}} \cdot z^{-\frac{4}{3}}$

4 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{3p^4b^4}}$$

A $3^{\frac{1}{3}} \cdot p^{\frac{4}{3}} \cdot b^{\frac{4}{3}}$

B $12^{-\frac{1}{3}} \cdot p^{-\frac{4}{3}} \cdot b^{-\frac{4}{3}}$

C $6^{-\frac{1}{3}} \cdot p^{-\frac{4}{3}} \cdot b^{-\frac{4}{3}}$

D $3^{-\frac{1}{3}} \cdot p^{-\frac{4}{3}} \cdot b^{-\frac{4}{3}}$

5 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{2z^4y^2}}$$

A $2^{-\frac{1}{3}} \cdot z^{-\frac{4}{3}} \cdot y^{-\frac{2}{3}}$

B $2^{-\frac{1}{3}} \cdot z^{-\frac{5}{3}} \cdot y^{-\frac{2}{3}}$

C $2^{-\frac{1}{2}} \cdot z^{-\frac{4}{2}} \cdot y^{-\frac{2}{2}}$

D $2^{\frac{1}{3}} \cdot z^{\frac{4}{3}} \cdot y^{\frac{2}{3}}$

E $8^{-\frac{1}{3}} \cdot z^{-\frac{4}{3}} \cdot y^{-\frac{2}{3}}$

6 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{11b^5z^4}}$$

A $44^{-\frac{1}{3}} \cdot b^{-\frac{5}{3}} \cdot z^{-\frac{4}{3}}$

B $11^{-\frac{1}{2}} \cdot b^{-\frac{5}{2}} \cdot z^{-\frac{4}{2}}$

C $33^{-\frac{1}{3}} \cdot b^{-\frac{5}{3}} \cdot z^{-\frac{4}{3}}$

D $11^{-\frac{1}{3}} \cdot b^{-\frac{5}{3}} \cdot z^{-\frac{6}{3}}$

E $11^{-\frac{1}{3}} \cdot b^{-\frac{5}{3}} \cdot z^{-\frac{4}{3}}$

7 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{11n^5y}}$$

A $11^{-\frac{1}{3}} \cdot n^{-\frac{6}{3}} \cdot y^{-\frac{1}{3}}$

B $11^{-\frac{1}{2}} \cdot n^{-\frac{5}{2}} \cdot y^{-\frac{1}{2}}$

C $44^{-\frac{1}{3}} \cdot n^{-\frac{5}{3}} \cdot y^{-\frac{1}{3}}$

D $11^{-\frac{1}{3}} \cdot n^{-\frac{5}{3}} \cdot y^{-\frac{1}{3}}$

E $11^{\frac{1}{3}} \cdot n^{\frac{5}{3}} \cdot y^{\frac{1}{3}}$

8 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{3y^2n^4}}$$

A $3^{-\frac{1}{2}} \cdot y^{-\frac{2}{2}} \cdot n^{-\frac{4}{2}}$

B $9^{-\frac{1}{3}} \cdot y^{-\frac{2}{3}} \cdot n^{-\frac{4}{3}}$

C $3^{-\frac{1}{3}} \cdot y^{-\frac{2}{3}} \cdot n^{-\frac{4}{3}}$

D $3^{\frac{1}{3}} \cdot y^{\frac{2}{3}} \cdot n^{\frac{4}{3}}$