Name

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

1 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{3r^2}}$$

A $3^{-\frac{1}{3}} \cdot r^{-\frac{3}{3}}$

B $3^{-\frac{1}{3}} \cdot r^{-\frac{1}{3}}$

C $3^{\frac{1}{3}} \cdot r^{\frac{2}{3}}$

D $3^{-\frac{1}{3}} \cdot r^{-\frac{2}{3}}$

2 Convert the radical to a fractional exponent

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

A $20^{-\frac{1}{3}} \cdot m^{-\frac{4}{3}}$

B $10^{-\frac{1}{3}} \cdot m^{-\frac{4}{3}}$

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

D $5^{-\frac{1}{2}} \cdot m^{-\frac{4}{2}}$

E $5^{\frac{1}{3}} \cdot m^{\frac{4}{3}}$

3 Convert the radical to a fractional exponent

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

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

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

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

D $20^{-\frac{1}{3}} \cdot x^{-\frac{1}{3}}$

4 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{5c}}$$

A $10^{-\frac{1}{3}} \cdot c^{-\frac{1}{3}}$

B $5^{-\frac{1}{3}} \cdot c^{-\frac{1}{3}}$

C $5^{-\frac{1}{3}} \cdot c^{-\frac{2}{3}}$

D $15^{-\frac{1}{3}} \cdot c^{-\frac{1}{3}}$

E $5^{-\frac{1}{3}} \cdot c^{-\frac{3}{3}}$

5 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{11d}}$$

A $11^{-\frac{1}{3}} \cdot d^{-\frac{3}{3}}$

B $33^{-\frac{1}{3}} \cdot d^{-\frac{1}{3}}$

C $11^{-\frac{1}{3}} \cdot d^{-\frac{1}{3}}$

D $11^{\frac{1}{3}} \cdot d^{\frac{1}{3}}$

E $11^{-\frac{1}{2}} \cdot d^{-\frac{1}{2}}$

6 Convert the radical to a fractional exponent

$$\frac{1}{\sqrt[3]{2x}}$$

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

B $8^{-\frac{1}{3}} \cdot x^{-\frac{1}{3}}$

C $2^{\frac{1}{3}} \cdot x^{\frac{1}{3}}$

D $2^{-\frac{1}{3}} \cdot x^{-\frac{2}{3}}$

E $2^{-\frac{1}{3}} \cdot x^{-\frac{1}{3}}$

7 Convert the radical to a fractional exponent

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

A $6^{-\frac{1}{3}} \cdot n^{-\frac{4}{3}}$

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

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

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

8 Convert the radical to a fractional exponent

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

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

B $3^{-\frac{1}{3}} \cdot n^{-\frac{1}{3}}$

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

D $9^{-\frac{1}{3}} \cdot n^{-\frac{2}{3}}$

E $6^{-\frac{1}{3}} \cdot n^{-\frac{2}{3}}$