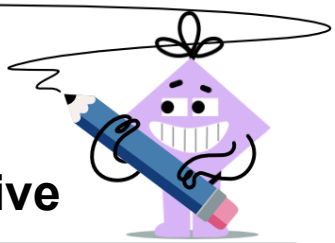
Name

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



1 Convert the fractional exponent to a radical

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

A $4\sqrt[3]{5x}$ B $\frac{1}{4\sqrt[3]{5x}}$ C $\frac{1}{4\sqrt[3]{x}}$

D $\frac{1}{\sqrt[3]{x^3}}$ E $\frac{1}{\sqrt[3]{3x}}$

2 Convert the fractional exponent to a radical

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

A $\frac{1}{\sqrt[3]{x^4}}$ B $\sqrt[3]{x}$ C $3\sqrt[3]{3x^2}$

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

3 Convert the fractional exponent to a radical

$$7^{-\frac{1}{3}} \cdot n^{-\frac{2}{3}}$$

A $\frac{1}{\sqrt[3]{7n^3}}$ B $\sqrt[3]{4n^2}$ C $\sqrt[3]{6n^2}$

D $\frac{1}{4\sqrt[3]{4n^4}}$ E $\frac{1}{\sqrt[3]{7n^2}}$

4 Convert the fractional exponent to a radical

$$11^{-\frac{1}{3}} \cdot d^{-\frac{2}{3}}$$

A $\frac{1}{3\sqrt[3]{12d^4}}$ B $\frac{1}{\sqrt[3]{8d}}$ C $\frac{1}{3\sqrt[3]{10d}}$ D $4\sqrt[3]{8d}$ E $\frac{1}{\sqrt[3]{11d^2}}$

5 Convert the fractional exponent to a radical

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

A $\frac{1}{3\sqrt[3]{8z}}$ B $\frac{1}{\sqrt[3]{3z}}$ C $\frac{1}{\sqrt[3]{5z^2}}$

D $\frac{1}{4\sqrt[3]{6z^2}}$ E $\sqrt[3]{7z}$

6 Convert the fractional exponent to a radical

$$2^{-\frac{1}{3}} \cdot m^{-\frac{1}{3}}$$

A $\frac{1}{\sqrt[3]{2m}}$ B $\sqrt[3]{4m}$ C $\frac{1}{\sqrt[3]{2m^3}}$ D $\frac{1}{\sqrt[3]{4m}}$ E $\frac{1}{\sqrt[3]{m}}$

7 Convert the fractional exponent to a radical

$$11^{-\frac{1}{3}} \cdot b^{-\frac{1}{3}}$$

A $\frac{1}{2\sqrt[3]{10b}}$ B $\frac{1}{4\sqrt[3]{12b}}$ C $\frac{1}{\sqrt[3]{11b}}$ D $\frac{1}{\sqrt[3]{12b}}$ E $\sqrt[3]{13b}$

8 Convert the fractional exponent to a radical

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

A $\frac{1}{4\sqrt[3]{z^2}}$ B $\frac{1}{2\sqrt[3]{5z}}$ C $\frac{1}{2\sqrt[3]{2z}}$

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