

6.4 Rational Exponents

Radical Expressions can be rewritten in an alternative form using *Rational (fractional)* exponents. In general,

$$\sqrt[n]{a} = a^{\frac{1}{n}}$$

and

$$\sqrt[n]{a^m} = a^{\frac{m}{n}}$$

$$\sqrt{x} = x^{\frac{1}{2}}$$

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

$$\sqrt{x^2} = x^{\frac{2}{2}} = x$$

$$\sqrt[3]{x^4} = x^{\frac{4}{3}}$$

$$\sqrt{a} \cdot \sqrt{a} = a$$

Simplify

$$\textcircled{1} 216^{\frac{1}{3}} = \sqrt[3]{216}$$
$$= \sqrt[3]{6^3}$$
$$= \boxed{6}$$

*Handwritten note: 216 = 6 * 36 = 6 * 6 * 6*

$$\textcircled{2} 7^{\frac{1}{2}} \cdot 7^{\frac{1}{2}} = \sqrt{7} \cdot \sqrt{7}$$
$$= \boxed{7}$$

$$\textcircled{3} 5^{\frac{1}{4}} \cdot 125^{\frac{1}{4}} = \sqrt[4]{5} \cdot \sqrt[4]{125}$$

$$\textcircled{4} 3^{\frac{1}{2}} \cdot 12^{\frac{1}{2}} =$$
$$\sqrt{3} \cdot \sqrt{12} = \sqrt{36}$$

Rational Exponents And Radical Expressions A Mighty Wind

ML Yell



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