



Rationalize each denominator and simplify. $\frac{12}{\sqrt[4]{3}} \cdot \frac{\sqrt[4]{3}}{\sqrt[4]{3}} = \frac{7}{\sqrt[4]{3}} \cdot \frac{\sqrt{2}}{\sqrt[4]{3}} = \frac{7}{\sqrt[4]{3}} \cdot \frac{\sqrt{2}}{\sqrt[4]{3}} = \frac{7}{\sqrt[4]{3}} \cdot \frac{\sqrt{2}}{\sqrt[4]{3}} = \frac{7}{\sqrt[4]{3}} \cdot \frac{\sqrt{2}}{\sqrt[4]{3}} \cdot \frac{\sqrt{2}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{7}{\sqrt[4]{3}} \cdot \frac{\sqrt{2}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{7}{\sqrt[4]{3}} \cdot \frac{\sqrt{2}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{7}{\sqrt{3}} \cdot \frac{\sqrt{2}}{\sqrt{2}} \cdot$

Rationalize each denominator and simplify. Assume all variables are positive.



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Simplify. Rationalize each denominator. Assume all variables are positive.



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Sec 7-2: Multiplying and Dividing Radical Expressions. Simplify. Assume all variables are positive.

100 q.8 $\overline{}$



You could multiply then simplify...



Simplify. Assume all variables are positive.

$$\sqrt{14P^5Q^8} \cdot \sqrt{35P^9Q^3} = \sqrt{\frac{490}{490}p^{\mu}Q^{\mu}}$$
$$= \sqrt{\frac{1}{10}p^7Q^5\sqrt{10}Q^{\mu}}$$

Simplify. Assume all variables are positive.

$$6\sqrt[3]{12c^{11}d^7} \cdot 3\sqrt[3]{10c^2d^5}$$

$$= 18\sqrt[3]{120c^{13}d^{12}} = 18 \cdot 2 \cdot c^4 \cdot d^4 \sqrt[3]{15c}$$

$$= \sqrt[36c^4d^4 \sqrt[3]{15c}}$$