

$$16 = 2 \cdot 2 \cdot 2 \cdot 2$$

$$\sqrt[3]{8x^3} = 2x$$

$$\sqrt{2 \cdot 2 \cdot 2 \cdot x \cdot x \cdot x}$$

$$2x$$

$$\sqrt[4]{\frac{32}{x^4}} = \frac{\sqrt[4]{32}}{\sqrt[4]{x^4}} = \frac{\sqrt[4]{16 \cdot 2}}{x}$$

$$\frac{2\sqrt[4]{2}}{x}$$

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~~125~~

$$\sqrt[3]{\frac{125x^6}{6}} = \frac{\sqrt[3]{125x^6}}{\sqrt[3]{6}}$$

$$\frac{5x^2}{\sqrt[3]{6} \cdot \sqrt[3]{6} \cdot \sqrt[3]{6}} = \frac{5x^2 \sqrt[3]{36}}{6}$$

$$\sqrt{50x^3} = \sqrt{25 \cdot 2 \cdot x^2 \cdot x} = 5x \sqrt{2x}$$

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$$\frac{8}{4} = 2$$

$$\sqrt[4]{x^8} \cdot \sqrt[3]{x^4}$$

$$X^2 \sqrt[3]{X^3} \cdot X$$

$$X^2 \cancel{X} \sqrt[3]{X}$$

$$X^3 \sqrt[3]{X}$$

$$\sqrt[3]{\frac{x^5}{4}} \quad \frac{\sqrt[3]{X^5}}{\sqrt[3]{4}} = \frac{\sqrt[3]{X^3 X^2}}{\sqrt[3]{4}}$$

$$\frac{X \sqrt[3]{X^2}}{\sqrt[3]{4}} \cdot \frac{\sqrt[3]{4} \cdot \sqrt[3]{4}}{\sqrt[3]{4} \cdot \sqrt[3]{4} \cdot \sqrt[3]{4}}$$

$$\frac{X \sqrt[3]{16x^2}}{4}$$

$$\frac{X \sqrt[3]{8 \cdot 2x^2}}{4}$$

$$\frac{2X \sqrt[3]{2x^2}}{4}$$

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$$(-x)(-x)(-x) = -x^3$$

$$\frac{\sqrt{40x^4}}{\sqrt[3]{-x^3}} = \frac{\sqrt{4 \cdot 10x^4}}{\sqrt[3]{-x^3}}$$

$$\frac{2X \sqrt{10}}{-\cancel{2}} = -2X\sqrt{10}$$

$$\sqrt[4]{\frac{x^{12}y^4}{3}} = \frac{\sqrt[4]{x^{12}y^4}}{\sqrt[4]{3}}$$

$$= \frac{X^3 Y}{\sqrt[4]{3} \cdot \sqrt[4]{3} \cdot \sqrt[4]{3} \cdot \sqrt[4]{3}} = \frac{X^3 Y \sqrt[4]{27}}{3}$$

$$Y^4 \sqrt[4]{27} \text{ OR } Y \sqrt[4]{27}$$

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$$\sqrt[3]{x^{15}} = x^{\frac{15}{3}}$$

$$x^5$$

$$x^{\frac{3}{2}} = \sqrt{x^3}$$

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