

P. e Rad.: Cov. Sewe 3

$$1) \sqrt[6]{2} \cdot \sqrt[6]{2^8} = \sqrt[6]{2^9} \stackrel{1.}{=} \sqrt[2]{2^3} \stackrel{2.}{=} 2\sqrt{2}$$

$$\hookrightarrow \stackrel{2.}{=} 2\sqrt[6]{2^3} \stackrel{1.}{=} 2\sqrt{2}$$

$$\hookrightarrow = \sqrt[6]{2} \cdot 2\sqrt[6]{2^2} = 2\sqrt[6]{2^3} = 2\sqrt{2}$$

$$2) \sqrt{2^3 \cdot 3^2} = 2 \cdot 3 \cdot \sqrt{2}$$

$$3) \frac{\sqrt{2^3 \cdot 5}}{\sqrt[4]{5^2}} = \frac{\sqrt{2^3 \cdot 5}}{\sqrt{5}} = \sqrt{\frac{2^3 \cdot \cancel{5}}{\cancel{5}}} = \sqrt{2^3} = 2\sqrt{2}$$

$$\hookrightarrow \frac{2\sqrt{2 \cdot 5}}{\sqrt{5}} = 2\sqrt{\frac{2 \cdot \cancel{5}}{\cancel{5}}} = 2\sqrt{2}$$

$$4) \frac{\sqrt[3]{2^2 \cdot x^8}}{\sqrt[3]{x^5}} = \sqrt[3]{\frac{2^2 \cdot \cancel{x^3}}{\cancel{x^3}}} = \sqrt[3]{2^2 \cdot x^3} = x \sqrt[3]{2^2}$$

$$\hookrightarrow = \frac{x \sqrt[3]{2^2 \cdot x^2}}{\cancel{x} \sqrt[3]{x^2}} = x \sqrt[3]{\frac{2^2 \cdot \cancel{x^2}}{\cancel{x^2}}} = x \sqrt[3]{2^2}$$

$$5) \sqrt{3^2 \cdot 7^2 \cdot 13} = 3 \cdot 7 \cdot \sqrt{13}$$

$$\sqrt{2 \cdot 5^2 \cdot 3^2} = 5 \cdot 3 \cdot \sqrt{2}$$

$$! \sqrt{16 \cdot 4 \cdot 32} = \sqrt{448} = \sqrt{2^6 \cdot 7} = 2^3 \sqrt{7}$$

$$\sqrt{2^4 \cdot 3^2 \cdot 5} = 2^2 \cdot 3 \sqrt{5}$$