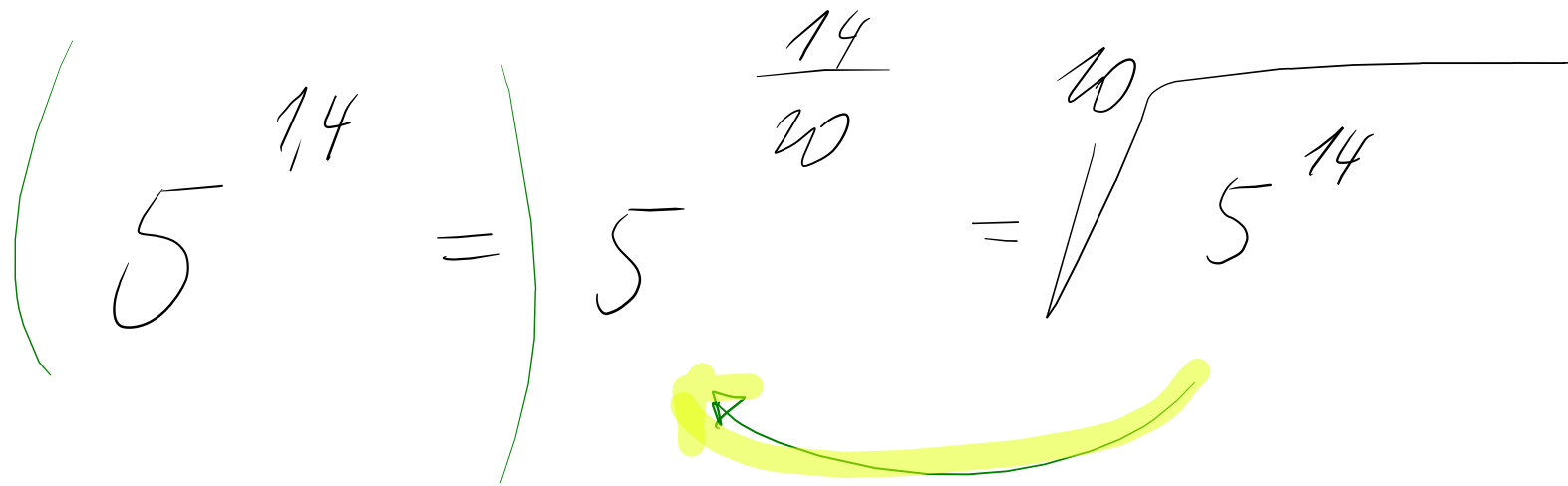


$$\Delta \sqrt{b} = b^{\frac{1}{2}}$$



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

1.8 / 1.14 a' 1.16

$$\frac{1}{\sqrt[2]{3^1}} = \frac{1}{3^{\frac{1}{2}}} = 3^{-\frac{1}{2}} = 3^{-0,5}$$

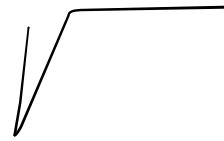
$$\sqrt[n]{2^p} = 2^{\frac{p}{n}}$$

$$\frac{1}{2^n} = 2^{-n}$$

$$\frac{5}{\sqrt{2}} = \frac{5}{2^{\frac{1}{2}}} = 5 \cdot \frac{1}{2^{\frac{1}{2}}} = 5 \cdot 2^{-\frac{1}{2}}$$

$$3^2 + 4^2 = 25$$

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



$$8. 4^{-\frac{3}{7}} = 2^3 \cdot (2^2)^{-\frac{3}{7}}$$

$$(2^n)^m = 2^{n \cdot m}$$

$$\begin{aligned} k \cdot \frac{a}{b} &= \frac{k \cdot a}{b} \\ &= \frac{k}{1} \cdot \frac{a}{b} \\ &= \frac{k \cdot a}{1 \cdot b} \end{aligned}$$

$$= 2^3 \cdot 2^{\frac{2}{1} \cdot (-\frac{3}{7})}$$

$$= 2^3 \cdot 2^{-\frac{6}{7}} = 2^{3 - \frac{6}{7}}$$

$$= 2^{\frac{21}{7} - \frac{6}{7}} = 2^{\frac{15}{7}}$$

$$2^n \cdot 2^m = 2^{n+m}$$

$$\sqrt[3]{2^5} \cdot \sqrt[2]{2^3}$$

$$= 2^{\frac{5}{3}} \cdot 2^{\frac{3}{2}} = 2^{\frac{5}{3} + \frac{3}{2}}$$

$$= \sqrt[6]{2^{19}}$$

$$\sqrt[9]{2^p} = 2^{\frac{p}{9}}$$

$$\sqrt[2]{(2x)^1} = (2x)^{\frac{1}{2}} = 2^{\frac{1}{2}} x^{\frac{1}{2}}$$

$$\sqrt[2]{2^1} = 2^{\frac{1}{2}}$$

$$\frac{a}{b} = \frac{a}{1} \cdot \frac{1}{b} = a \cdot \frac{1}{b}$$

$$\frac{8}{\sqrt[7]{4^3}}$$

$$= \frac{8}{4^{\frac{3}{7}}}$$

$$= 8 \cdot \frac{1}{4^{\frac{3}{7}}}$$

$$\frac{1}{2^n} = 2^{-n}$$

$$= 8 \cdot 4^{-\frac{3}{7}}$$

$$(2^n)^m = 2^{(n \cdot m)}$$

$$= 2^3 \cdot (2^2)^{-\frac{3}{7}}$$

$$= 2^3 \cdot 2^{2 \cdot (-\frac{3}{7})} = 2^3 \cdot 2^{-\frac{2}{1} \cdot \frac{3}{7}}$$

$$= 2^3 \cdot 2^{-\frac{6}{7}}$$