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$\log_2 11$

$$\frac{\log_2 11}{\log_2 2} \approx 3,5$$

CAMBIAMENTO DI BASE

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$$\log_a b = \frac{\log_c b}{\log_c a}$$

$$\log_a b = x \quad \log_c a = y$$

$$a^x = b \quad c^y = a$$

$$c^{xy} = b$$

$$\log_a b = x$$
$$a^x = b$$

$$\log_x 9 = \frac{3}{2} \quad x^{\frac{3}{2}} = 9$$

$$\left(\sqrt{x^3}\right)^2 = (9)^2$$

$$9^2 = (3^2)^2 = 3^4$$

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

$$\log_x \sqrt[4]{3} = \frac{1}{2}$$

$$x^{\frac{1}{2}} = \sqrt[4]{3}$$
$$\left(x^{\frac{1}{2}}\right)^2 = \left(3^{\frac{1}{4}}\right)^2$$

$$x = 3^{\frac{1}{2}}$$

$$x = \sqrt{3}$$

$$\log_x \sqrt[3]{5} = \frac{4}{3}$$

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

$$x^{\frac{4}{3}} = 5^{\frac{1}{3}}$$

$$\left(x^{\frac{4}{3}}\right)^3 = \left(5^{\frac{1}{3}}\right)^3$$

$$x^4 = 5$$

$$x = \sqrt[4]{5}$$

$$a, b, c > 0 \quad e \neq 1$$

$$\log_a b = c \quad \log_c a = b$$

also

$$\boxed{\log_c b = b \cdot c}$$

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