

Atenție!

$$a^{\log_a x} = \log_a a^x = x$$

Proprietățile logaritmilor:

$$1) \log_a xy = \log_a x + \log_a y$$

$$2) \log_a \frac{x}{y} = \log_a x - \log_a y$$

$$3) \log_a x^n = n \log_a x$$

$$4) \log_a b = \frac{\log_c b}{\log_c a}$$

$$5) \log_a b = \frac{1}{\log_b a}$$

$$6) \log_a 1 = 0$$

$$7) \log_a a = 1$$

$$8) \log_a a^r = r$$

$$9) \log_a \frac{1}{b} = -\log_a b$$

$$10) \log_{\frac{1}{a}} b = -\log_a b$$

$$11) \log_a b \log_b c = \log_a c$$

$$12) \log_{a^m} a^n = \frac{n}{m}, m \neq 0$$