

Potenslagar

$a, b > 0; \quad x, y \in R$

$$(1) \quad a^x \cdot a^y = a^{x+y}$$

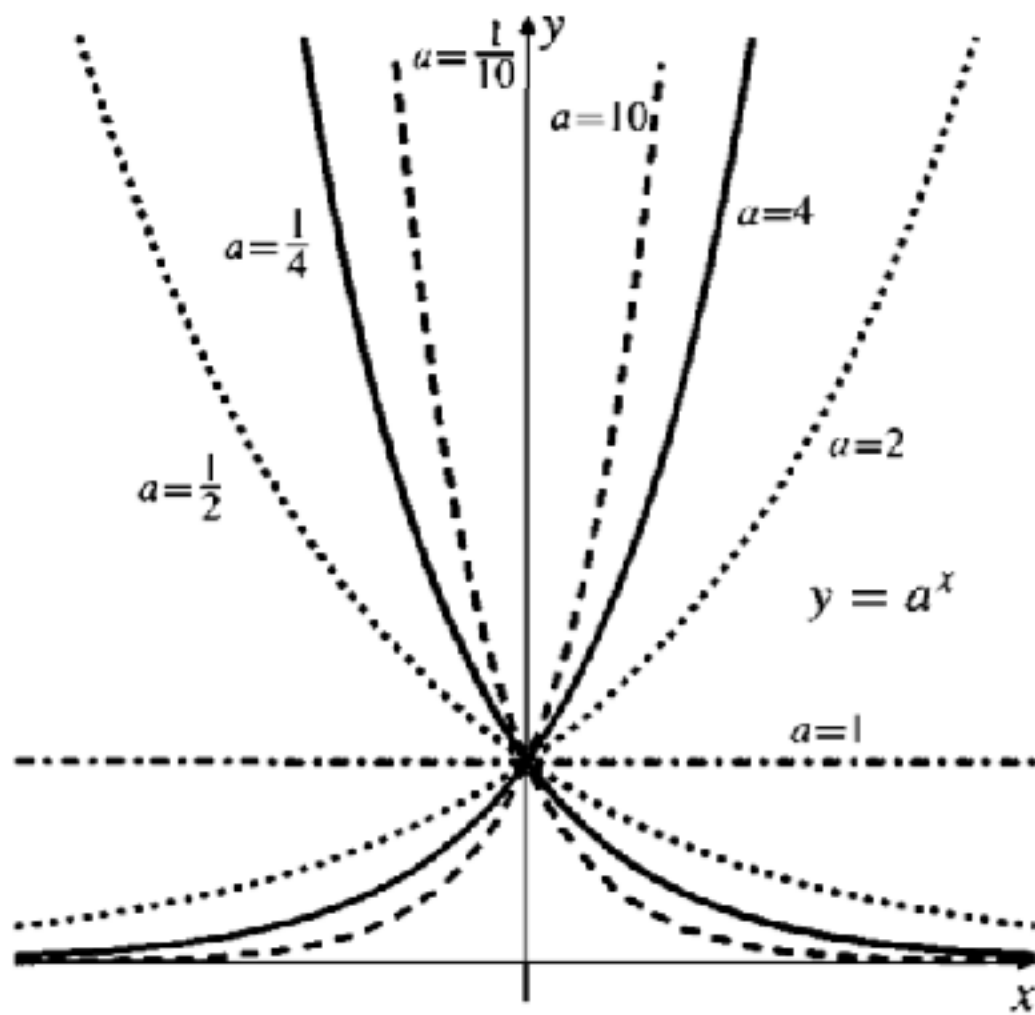
$$(2) \quad \frac{a^x}{a^y} = a^{x-y}$$

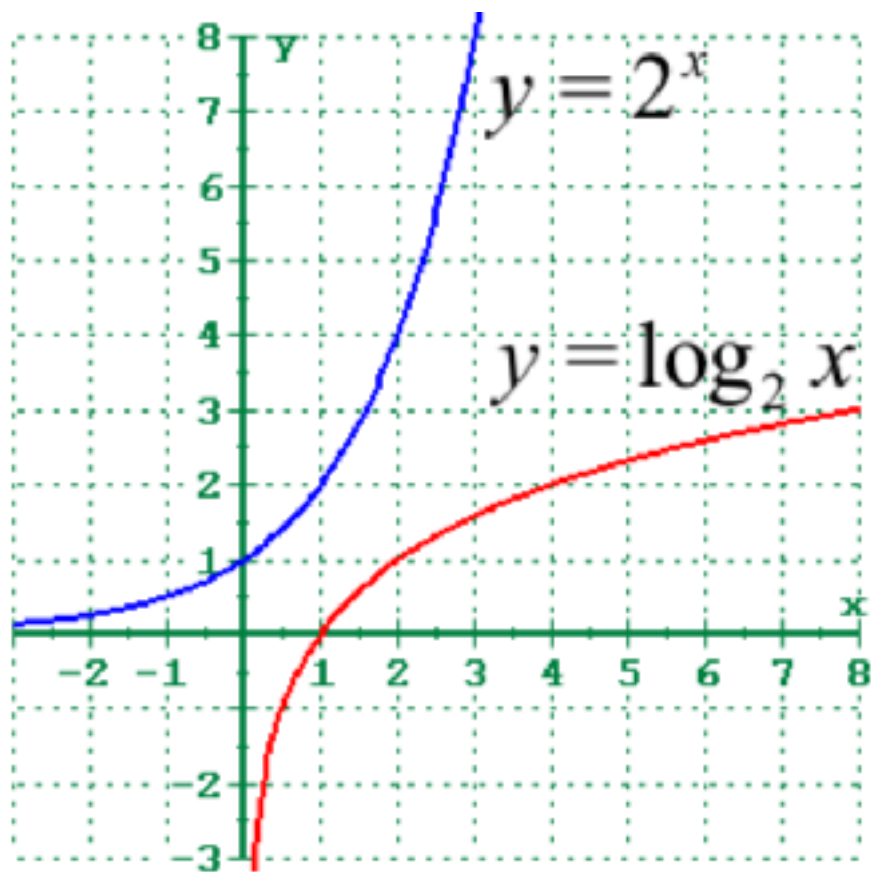
$$(3) \quad (a^x)^y = a^{xy}$$

$$(4) \quad (ab)^x = a^x b^x$$

$$(5) \quad \left(\frac{a}{b}\right)^x = \frac{a^x}{b^x}$$

$$(6) \quad a^x > 0 \quad \forall x \in R$$





$$f(x) = 2^x \qquad f^{-1}(x) = \log_2 x$$
$$D(f) = [-\infty, \infty) \qquad D(f^{-1}) = (0, \infty)$$

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$$(1) \quad a^x \cdot a^y = a^{x+y}$$

$$(2) \quad \frac{a^x}{a^y} = a^{x-y}$$

$$(3) \quad (a^x)^y = a^{xy}$$

$$(4) \quad (ab)^x = a^x b^x$$

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$$(6) \quad a^x > 0 \quad \forall x \in \mathbb{R}$$

Logaritmlagar

$$x, y > 0$$

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

$$\log_a \left(\frac{x}{y}\right) = \log_a x - \log_a y$$

$$\log_a x^s = s \cdot \log_a x$$