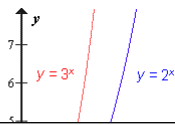
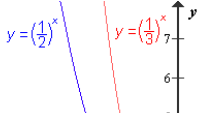


EKSPONENTNA FUNKCIJA

Funkcijski predpis: $f: \mathbb{R} \rightarrow \mathbb{R}$
 $f(x) = a^x; a \in \mathbb{R}^{+ \setminus \{1\}}$

<i>Osnova</i>	<i>Graf</i>	<i>Lastnosti</i>
$a > 1$		$D_f = \mathbb{R}$ $Z_f = (0, \infty)$
$0 < a < 1$		$D_f = \mathbb{R}$ $Z_f = (0, \infty)$

Eksponentna enačba:

- 1) $a^{f(x)} = a^{g(x)}$
 $\Rightarrow f(x) = g(x)$
- 2) $a^{f(x)} = b^{f(x)}$
 $\Rightarrow f(x) = 0$
- 3) $a^{f(x)} = b^{g(x)} / \log$
 $\Rightarrow f(x) \log a = g(x) \log b$

Definicije in pravila za računanje s potencami:

$$a^0 = 1$$

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

$$a^{\frac{n}{m}} = \sqrt[m]{a^n}$$

$$(a^x)^y = a^{xy}$$

$$a^x \cdot a^y = a^{x+y}$$

$$\frac{a^x}{a^y} = a^{x-y}$$

$$a^x \cdot b^x = (ab)^x$$

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