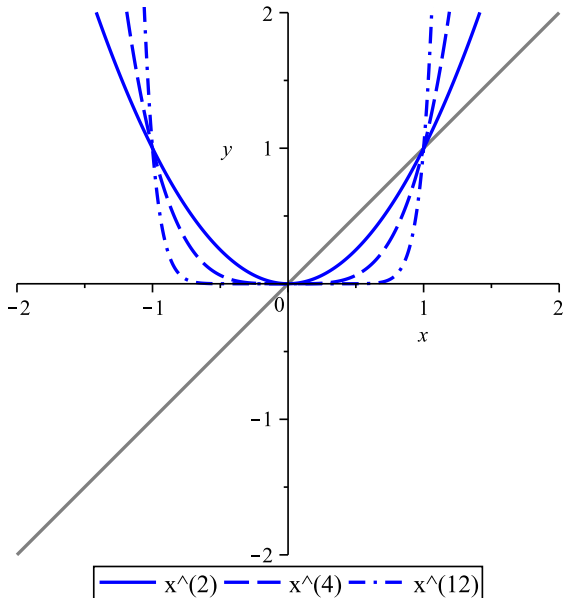


# Grafy některých elementárních funkcí

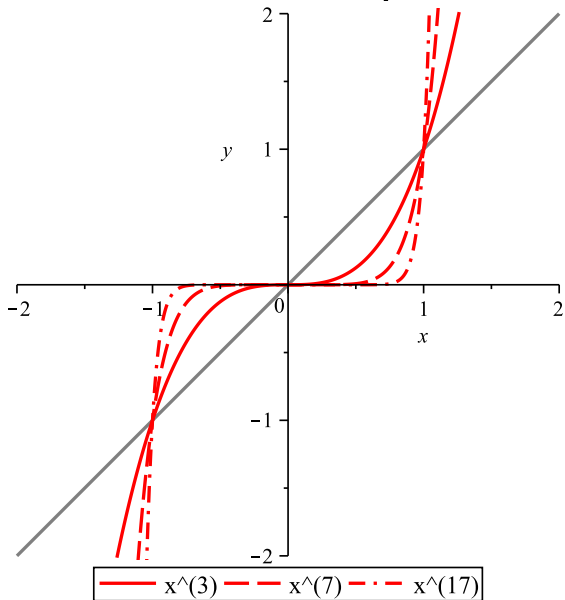
M.Rokyta, KMA MFF UK

Obrázky byly vytvořeny programem Maple 13, prezentace pomocí LaTeX2eps, beamer.sty

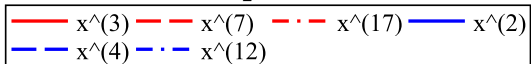
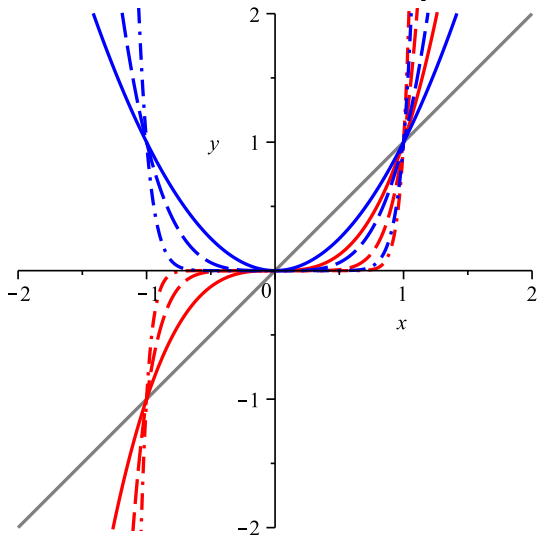
# Sudé mocniny



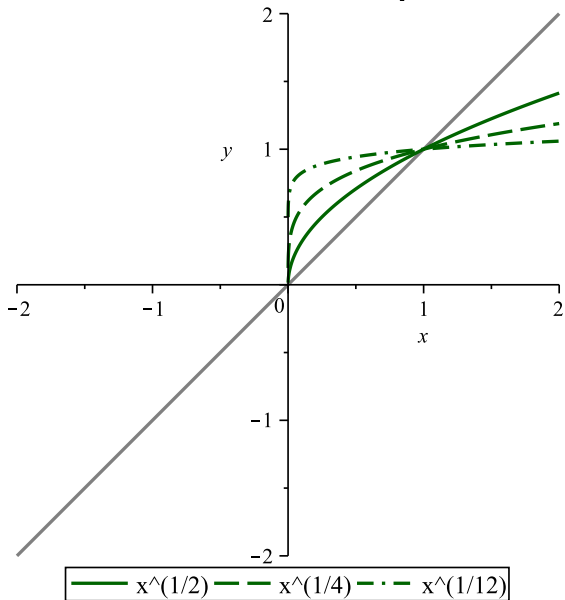
# Liché mocniny



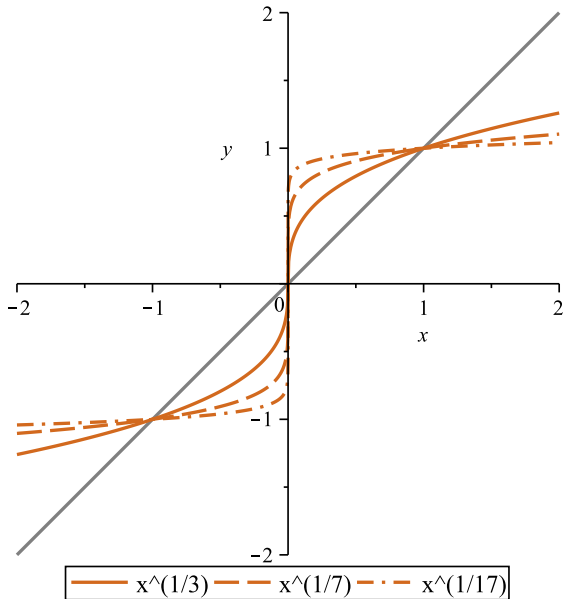
# Sudé a liché mocniny



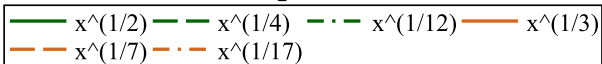
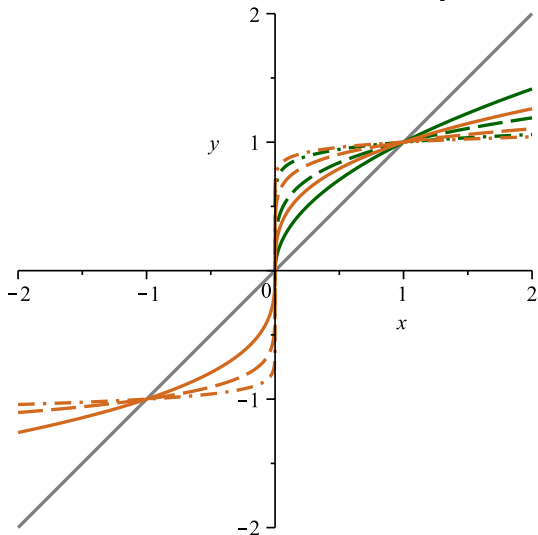
# Sudé odmocniny



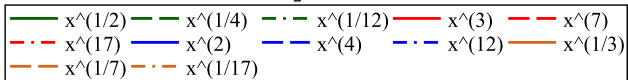
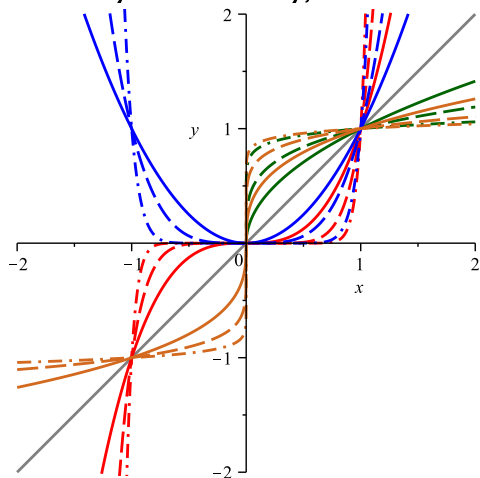
# Liché odmocniny



## Sudé a liché odmocniny

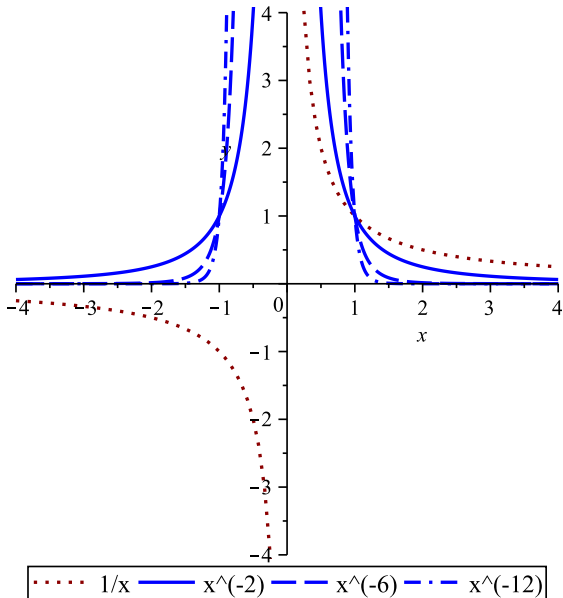


## Mocniny a odmocniny, sudé i liché

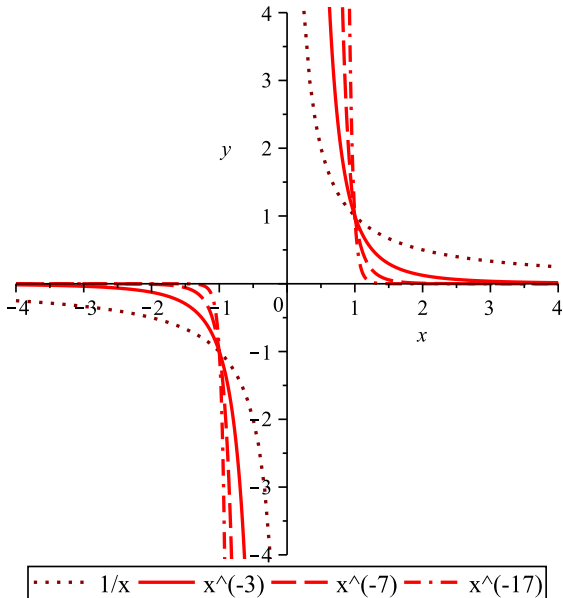




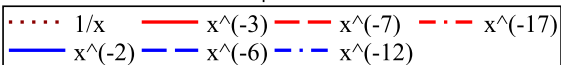
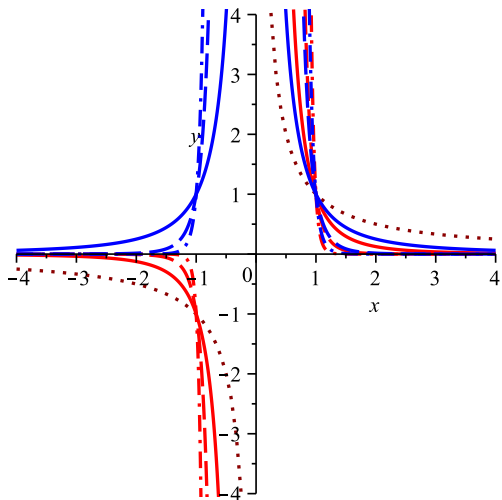
# Převrácené hodnoty sudých mocnin



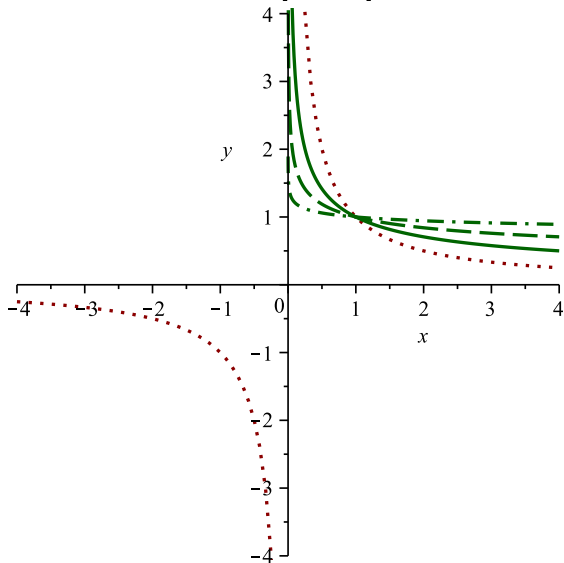
# Převrácené hodnoty lichých mocnin



# Převrácené hodnoty sudých i lichých mocnin

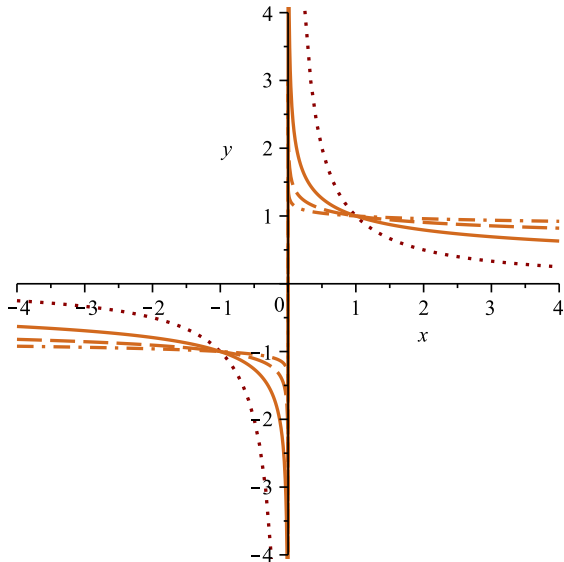


# Převrácené hodnoty sudých odmocnin



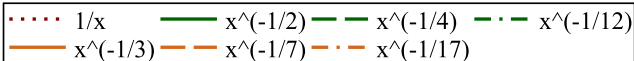
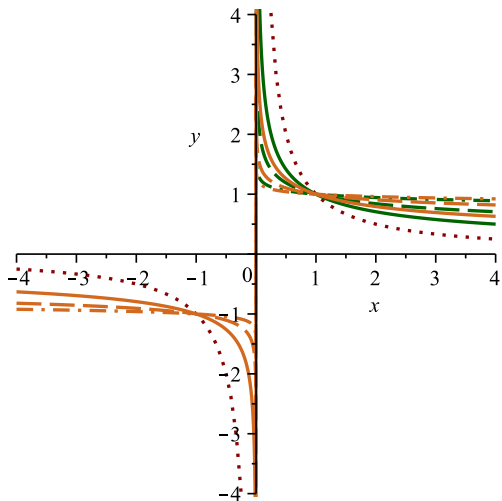
.....  $1/x$  —  $x^{-1/2}$  - -  $x^{-1/4}$  - · -  $x^{-1/12}$

# Převrácené hodnoty lichých odmocnin

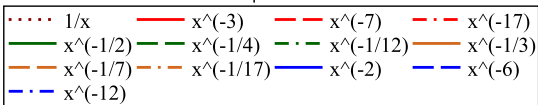
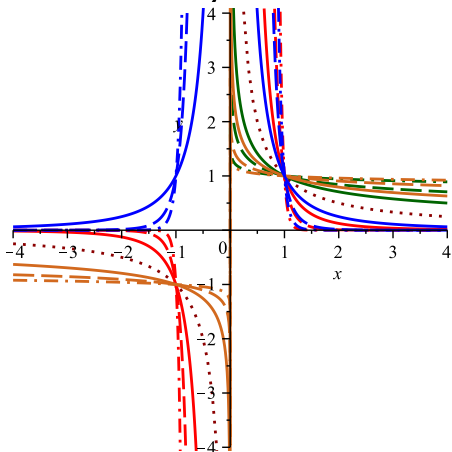


.....  $1/x$  —  $x^{-1/3}$  - - -  $x^{-1/7}$  - · -  $x^{-1/17}$

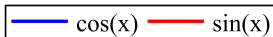
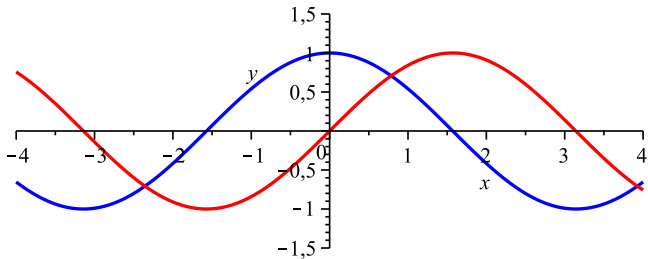
# Převrácené hodnoty sudých i lichých odmocnin



## Převrácené hodnoty mocnin a odmocnin

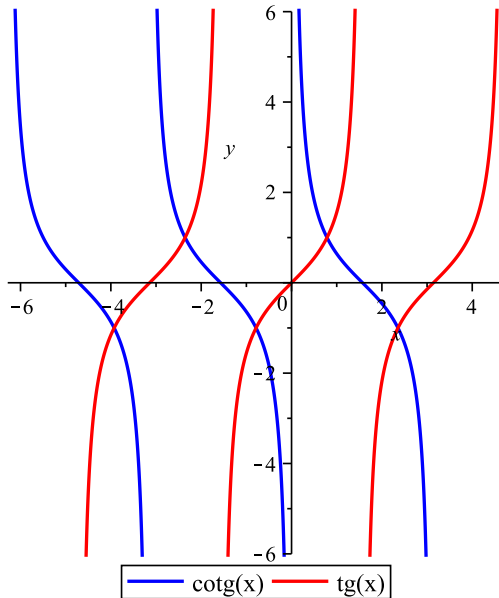


# Sinus a kosinus

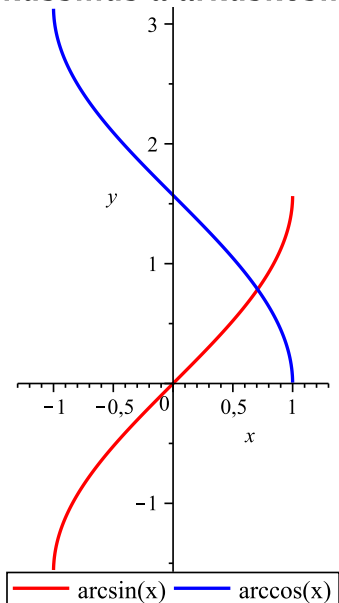




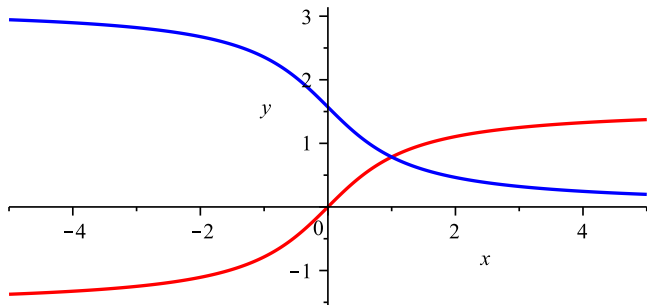
# Tangens a kotangens



# Arkussinus a arkuskosinus

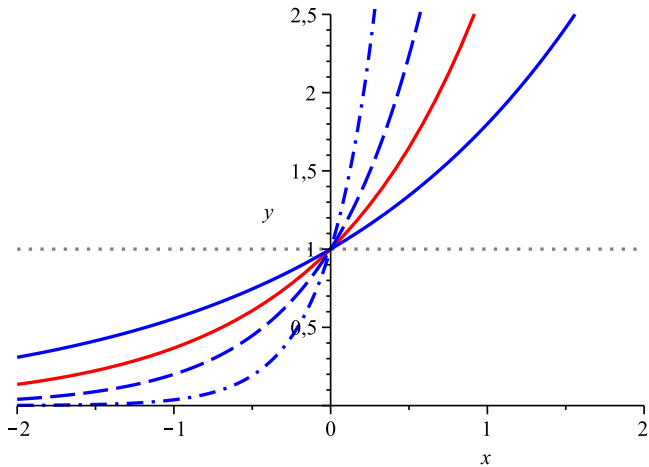


# Arkustangens a arkuskotangens



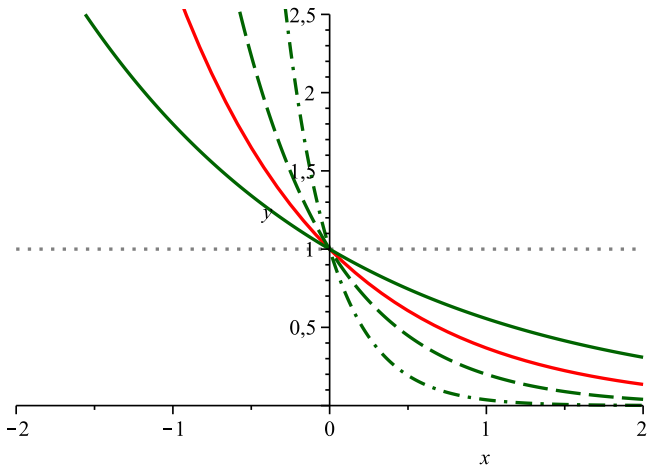
—  $\arctg(x)$  —  $\arccotg(x)$

# Exponenciály s kladnou mocninou



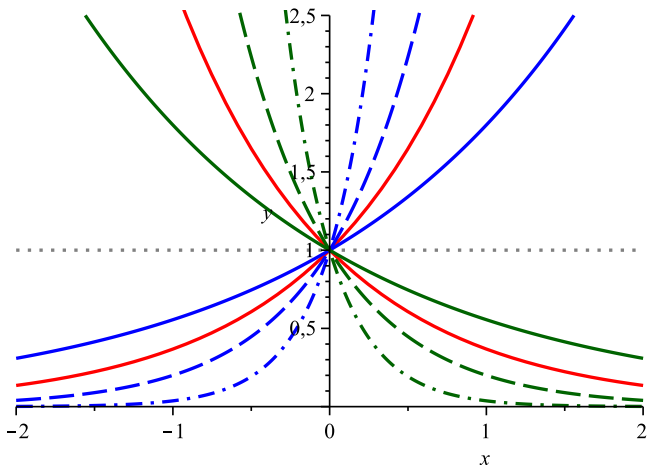
—  $e^x$  —  $1.8^x$  - -  $5^x$  - · -  $27^x$









# Exponenciály se zápornou mocninou



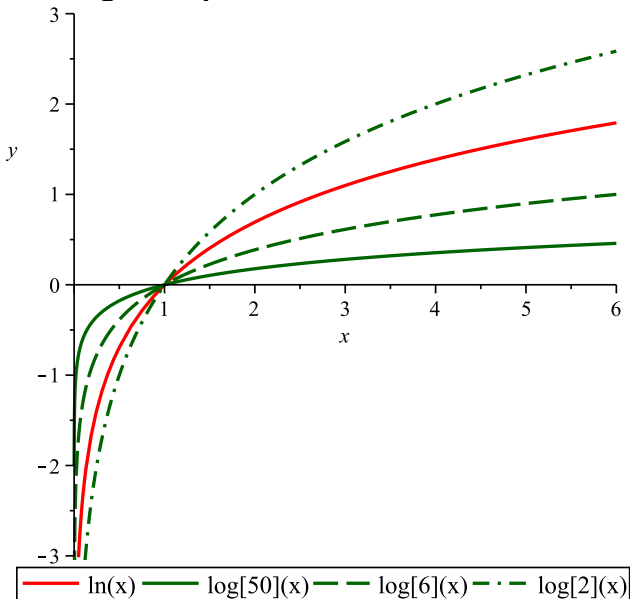
—  $e^{-x}$  —  $1.8^{-x}$  - -  $5^{-x}$  - · -  $27^{-x}$

# Exponenciály s kladnou i zápornou mocninou

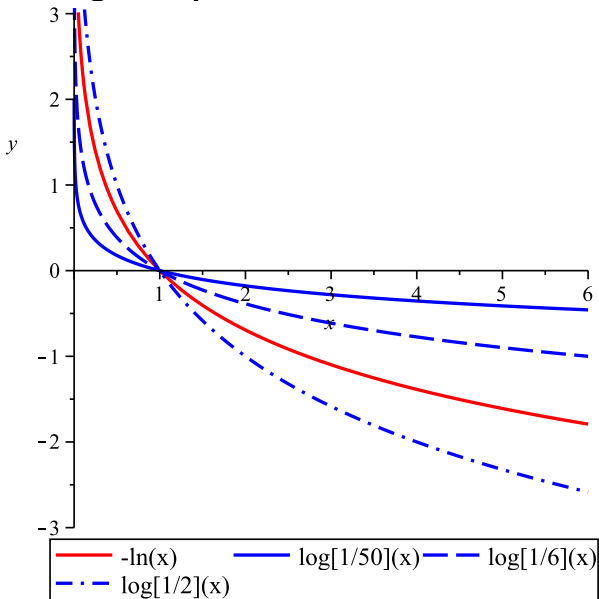


	$e^x$		$e^{-x}$		$1.8^x$		$5^x$
	$27^x$		$1.8^{-x}$		$5^{-x}$		$27^{-x}$

# Logaritmy o základu větším než 1

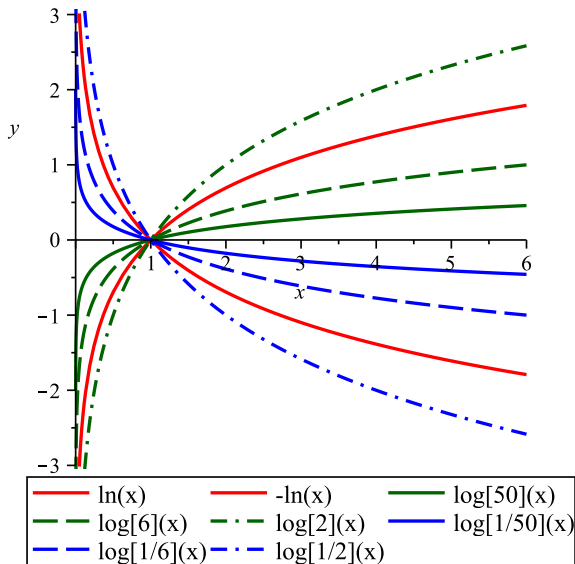


# Logaritmy o základu menším než 1

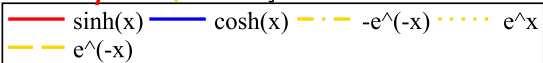
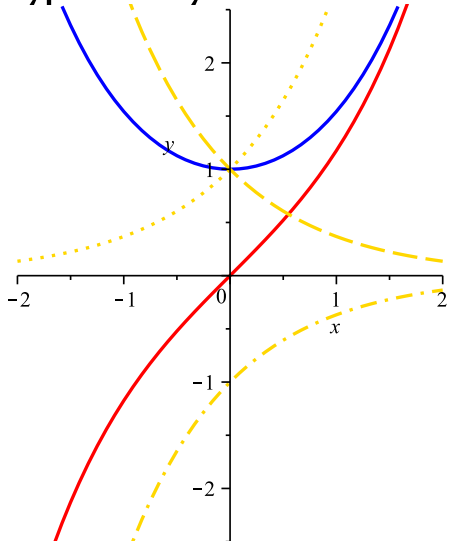




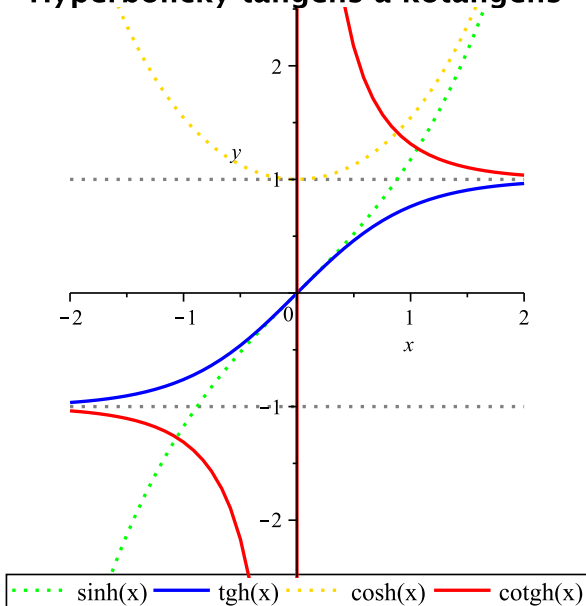
# Logaritmy o základu větším i menším než 1



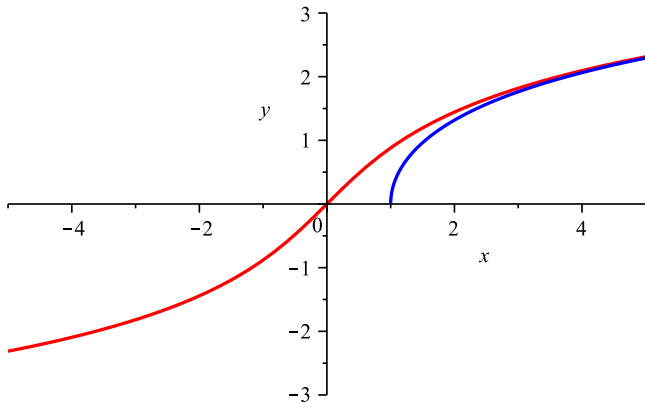
# Hyperbolický sinus a kosinus



# Hyperbolický tangens a kotangens

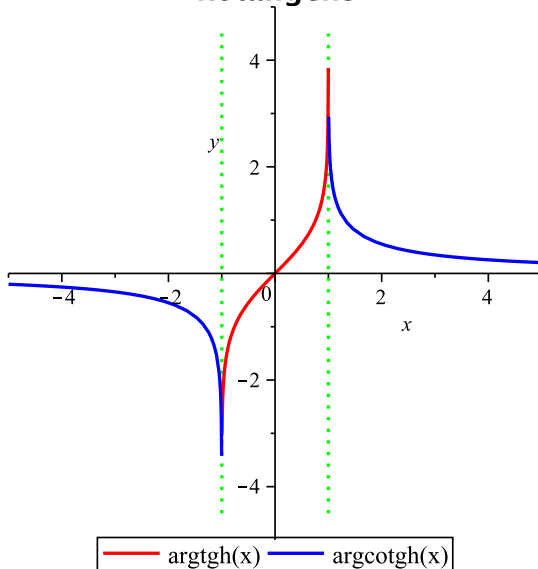


# Inverzní hyperbolický sinus a kosinus

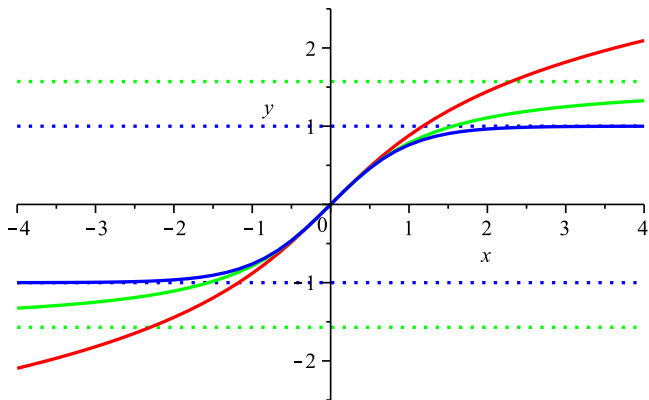


—  $\operatorname{argsinh}(x)$  —  $\operatorname{argcosh}(x)$

# Inverzní hyperbolický tangens a kotangens



# Arkustangens, hyperbolický tangens, inverzní hyperbolický sinus – srovnání



—  $\operatorname{arcsinh}(x)$  —  $\operatorname{arctg}(x)$  —  $\operatorname{tgh}(x)$