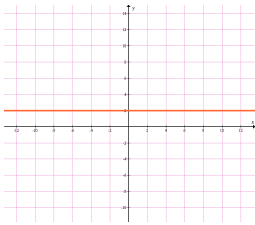
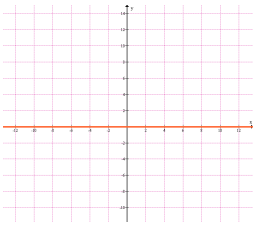
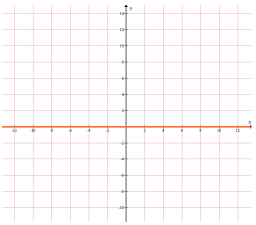
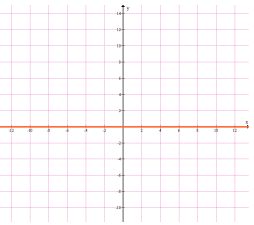
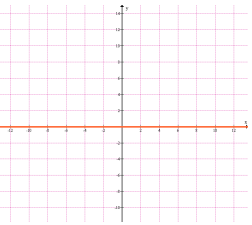
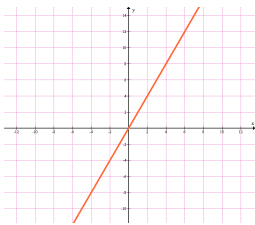
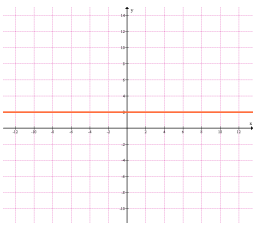
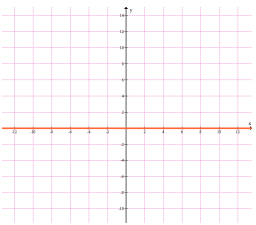
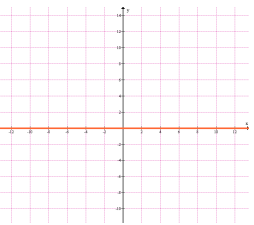
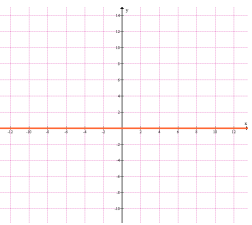
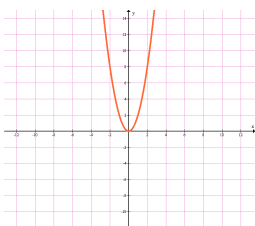
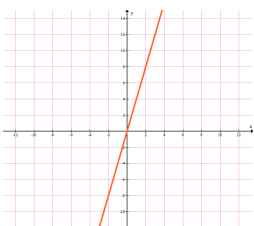
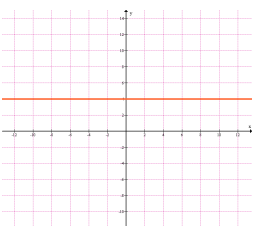
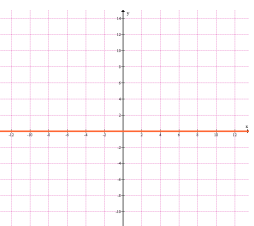
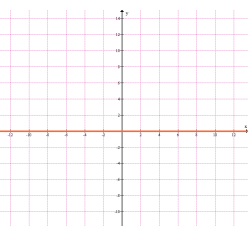
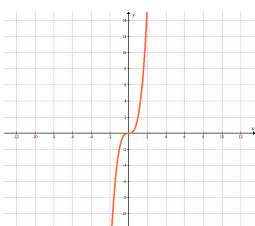
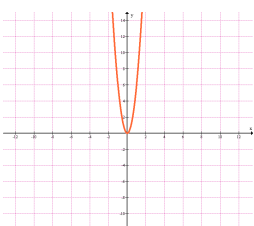
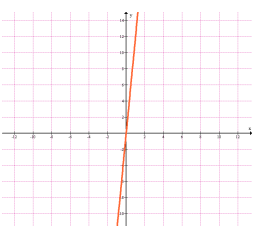
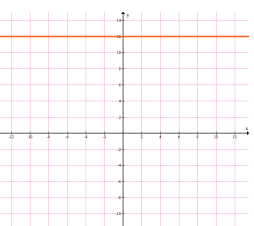
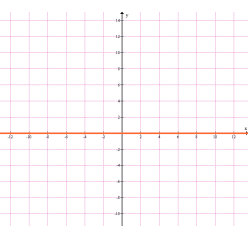
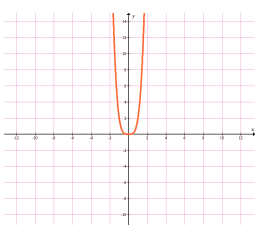
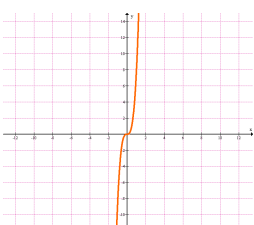
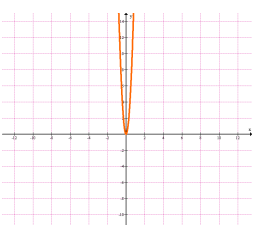
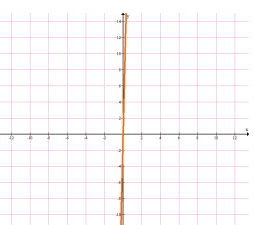
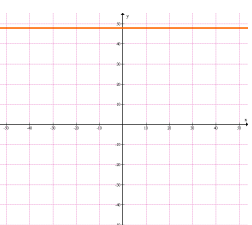


DERIVACE DERIVACE

V Tabulce 1 lze spatřit nejen vztah mezi původní funkcí a její derivací, ale i vztah mezi derivacemi. Např. z třetí derivace můžeme vyčíst monotonii druhé derivace, zrovna tak, jako ze čtvrté derivace můžeme vyčíst konvexnost či konkávnost druhé derivace.

TABULKA 1. Různé funkce a řada jejich derivací

Zadaná funkce	První derivace	Druhá derivace	Třetí derivace	Čtvrtá derivace
$y = 2$ 	$y' = 0$ 	$y'' = 0$ 	$y''' = 0$ 	$y'''' = 0$ 
$y = 2x$ 	$y' = 2$ 	$y'' = 0$ 	$y''' = 0$ 	$y'''' = 0$ 
$y = 2x^2$ 	$y' = 4x$ 	$y'' = 4$ 	$y''' = 0$ 	$y'''' = 0$ 
$y = 2x^3$ 	$y' = 6x^2$ 	$y'' = 12x$ 	$y''' = 12$ 	$y'''' = 0$ 
$y = 2x^4$ 	$y' = 8x^3$ 	$y'' = 24x^2$ 	$y''' = 48x$ 	$y'''' = 48$ 

Zdroj: program Graph