



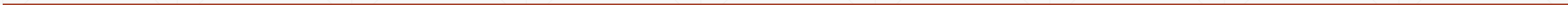
常见函数梯度

主讲人：龙良曲

Common Functions

Common Functions	Function	Derivative
Constant	c	0
Line	x	1
	ax	a
Square	x^2	$2x$
Square Root	\sqrt{x}	$(\frac{1}{2})x^{-\frac{1}{2}}$
Exponential	e^x	e^x
	a^x	$\ln(a) a^x$
Logarithms	$\ln(x)$	$1/x$
	$\log_a(x)$	$1 / (x \ln(a))$
Trigonometry (x is in radians)	$\sin(x)$	$\cos(x)$
	$\cos(x)$	$-\sin(x)$
	$\tan(x)$	$\sec^2(x)$

$$xw + b$$



$$xw^2 + b^2$$



$$xe^w + e^b$$



$$[y - (xw + b)]^2$$



$$y \log(xw + b)$$



下一课时

什么是激活函数

Thank You.
