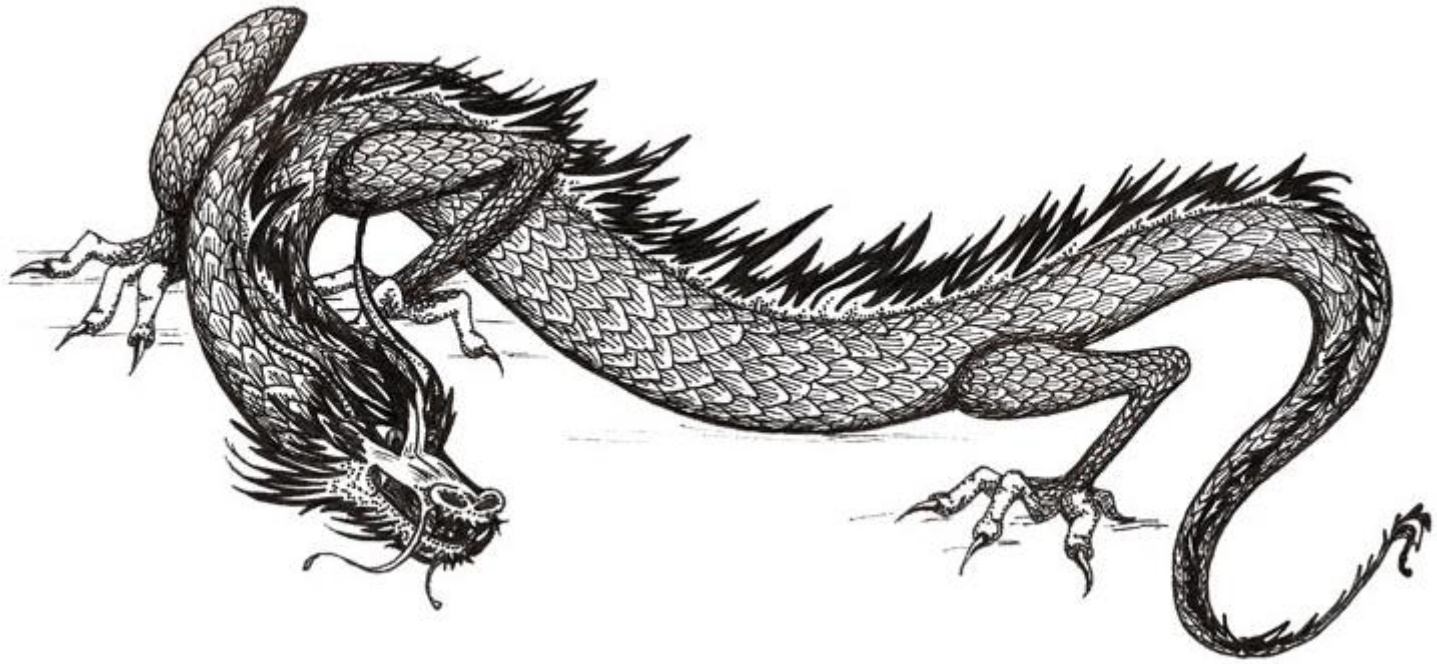

常见函数的梯度

主讲：龙良曲

Common Functions

Common Functions	Function	Derivative
Constant	c	0
Line	x	1
	ax	a
Square	x^2	$2x$
Square Root	$\sqrt{x}$	$(½)x^{-½}$
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)	$\sin(x)$	$\cos(x)$
	$\cos(x)$	$-\sin(x)$
	$\tan(x)$	$\sec^2(x)$

$$xw + b$$

$$xw^2 + b^2$$

$$xe^{w} + e^{b}$$

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

$$\mathbf{y}\log(\boldsymbol{xw} + \boldsymbol{b})$$

下一课时

激活函数及其梯度

Thank You.