Population growth
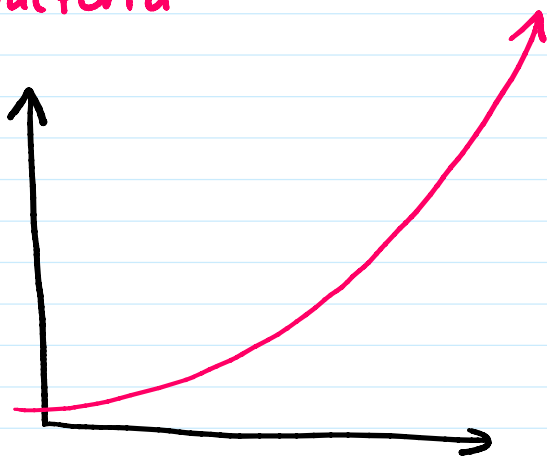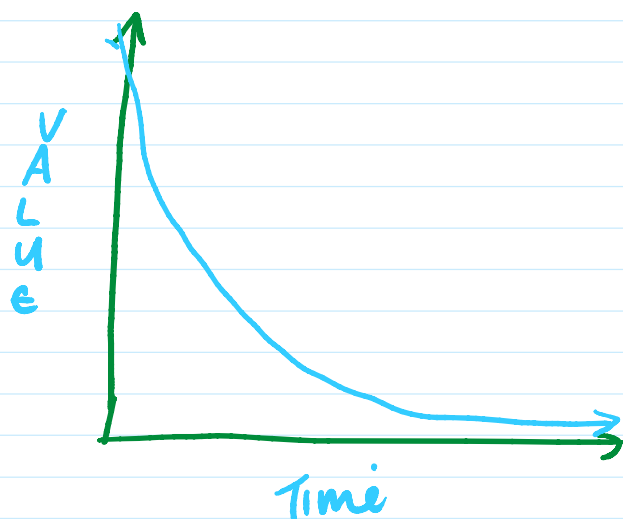**Bacteria**

Depreciation

VALUE

Time

In exponential functions the power is the variable

Eg $f(x) = 2^x$ or $f(x) = 3^x$

Remember $a^0 = 1$

graph the function $f(x) = 3^x$ in the domain

$-2 \leq x \leq 3$

X	f(x)	(x, y)
-2	$\cdot 111$	
-1	$\cdot 33$	
0	1	
1	3	
2	9	
3	27	