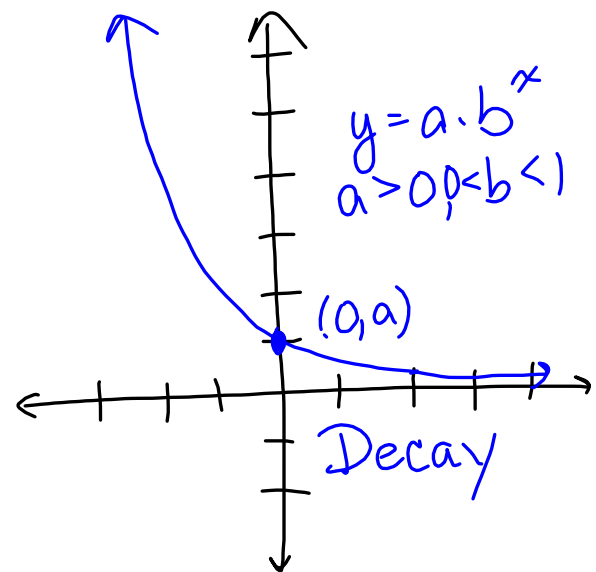
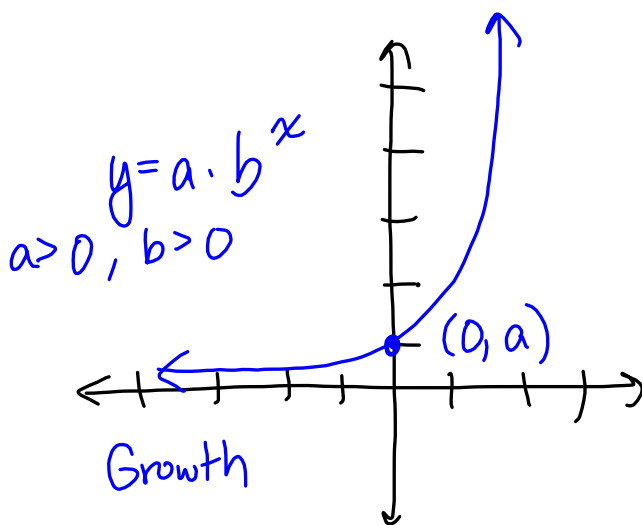


## Sec. 7.7 Exponential Growth and Decay

Exponential	$y = a \cdot b^x$	<u>Factor</u>
Growth	$a > 0, b > 1$	$b = 1 + r$
Decay	$a > 0, 0 < b < 1$	$b = 1 - r$



Compound Interest

$$A = P \left( 1 + \frac{r}{n} \right)^{nt}$$

$A$  = the balance

$P$  = principal (initial deposit)

$r$  = rate of interest (decimal)

$t$  = time in years

$n$  = number of times interest is compounded per year