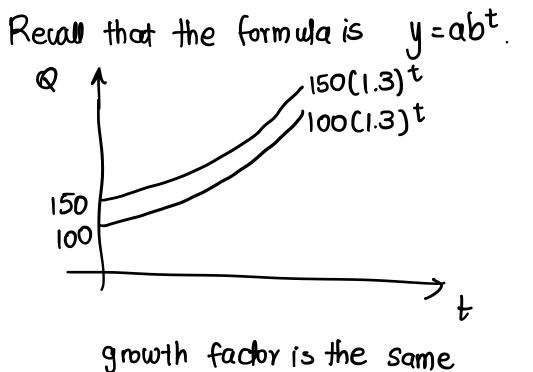
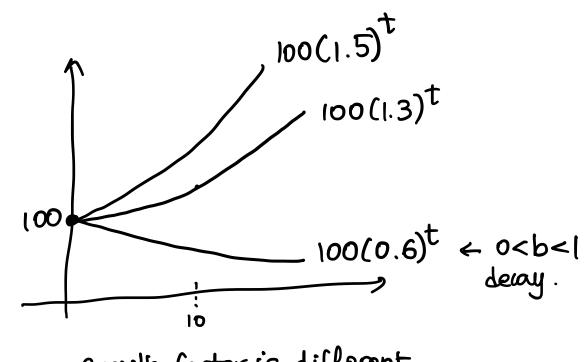
Graphs of exponential functions (sec 4.3)

Thursday, October 29, 2020 6:08 PM

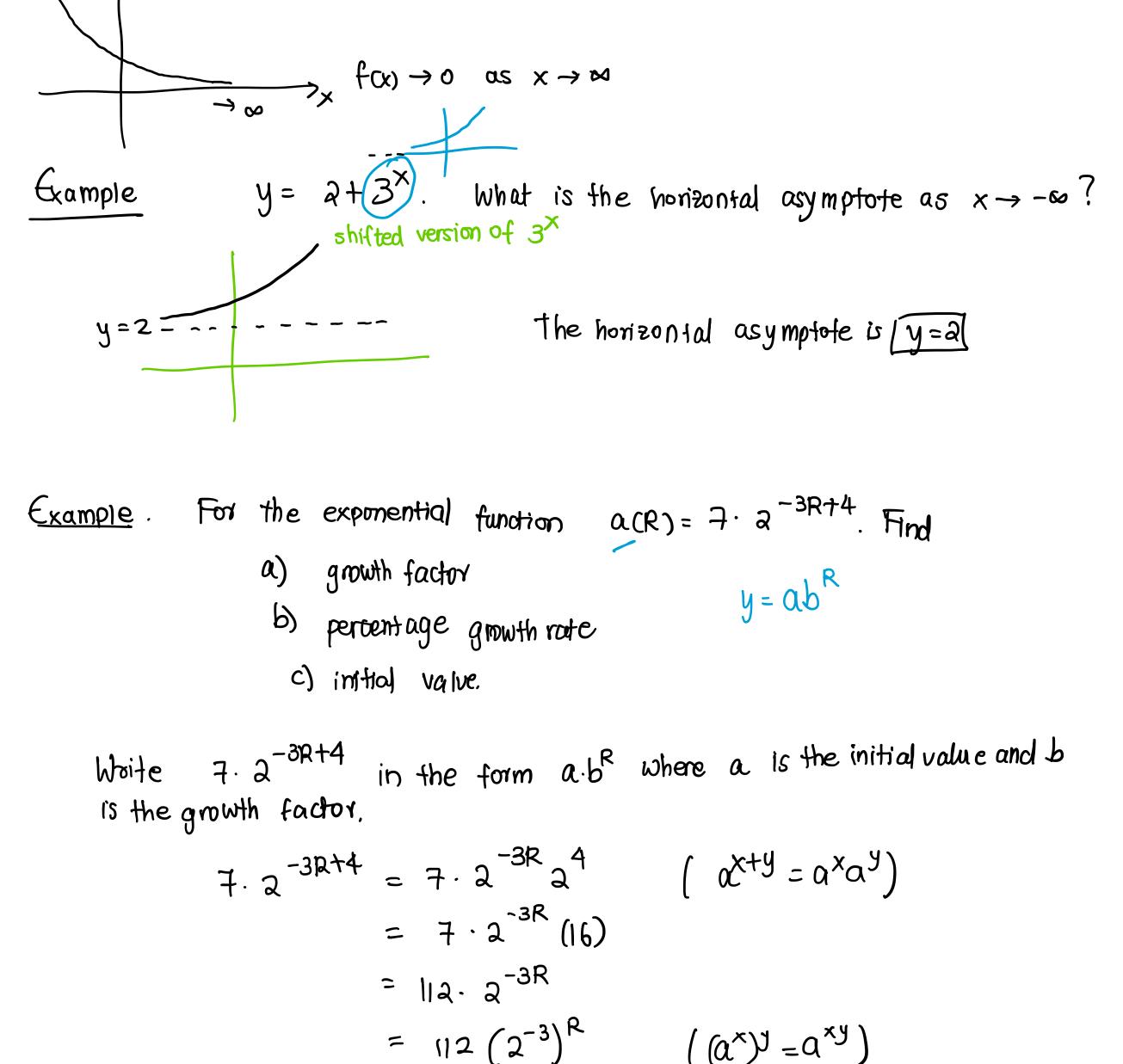


and the initial amount (s different.



growth factor is different and the initial amount is the same.

The horizontal line y=k is a horizontal asymptote of a function fix), if the function values get arbitrarily close to k as x gets large. We use the following notation



$$= 1/2 \left(\frac{1}{2^3}\right)^R$$

$$= 1/2 \left(\frac{1}{2^3}\right)^R = \alpha(b)^R$$
a) growth factor is $\frac{1}{8}$
b) perc. growth rate $b = 1+r \Rightarrow r = b-1 \Rightarrow r = \left(\frac{1}{8}-1\right) 100 \%$
c) initial value is 1/2.