

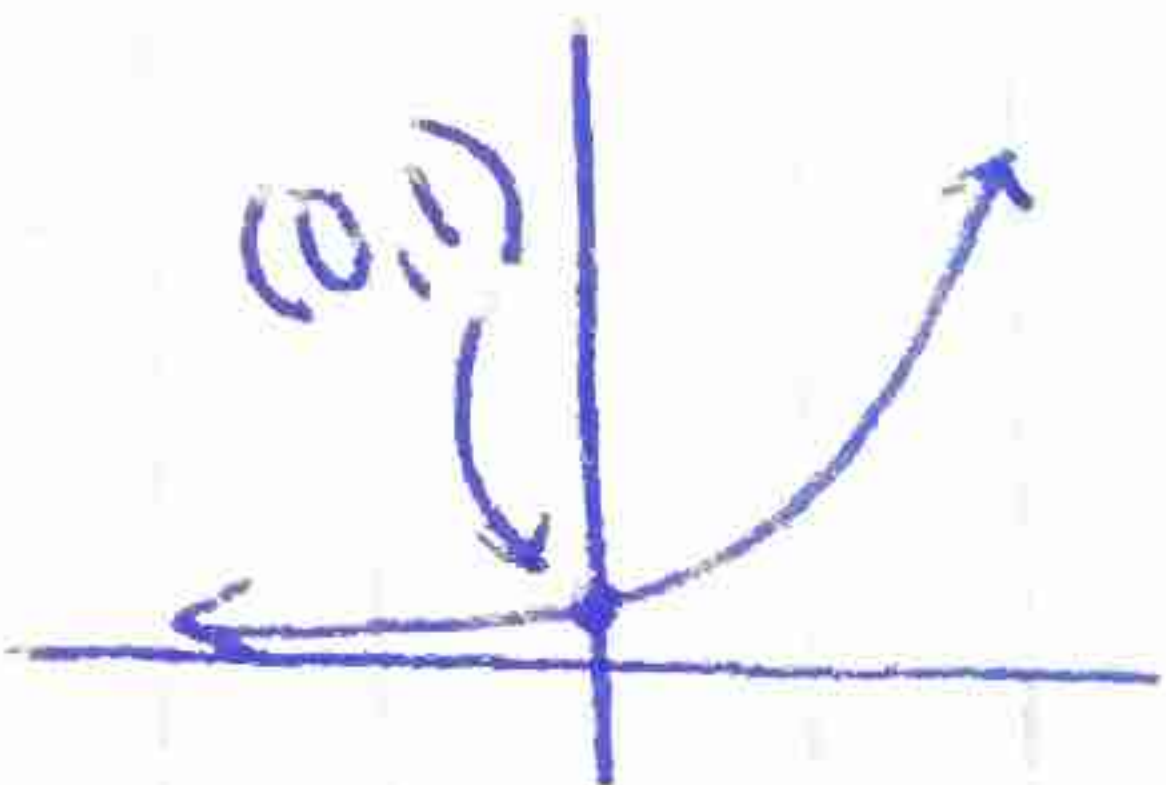
Exponential Graphs

AAT

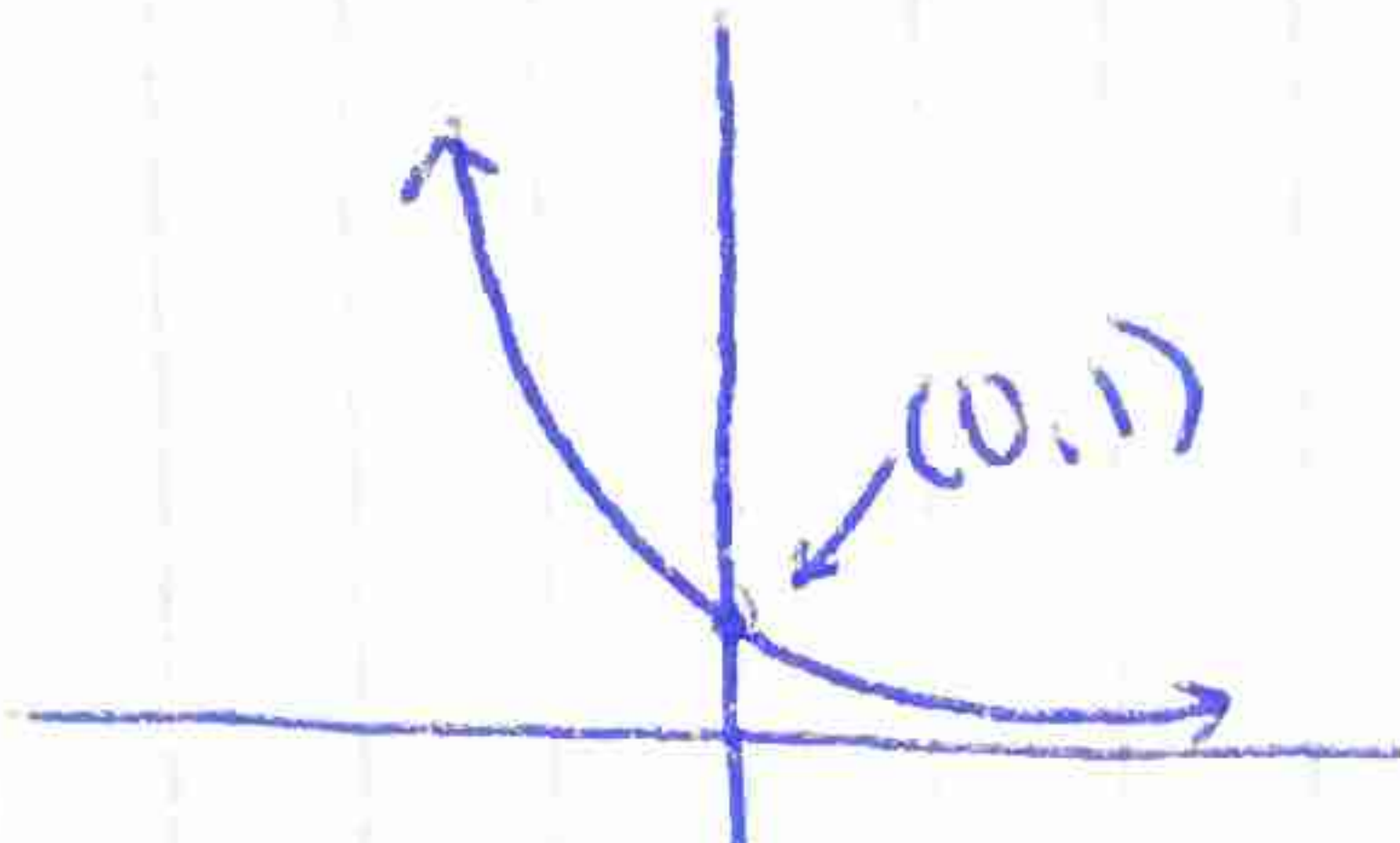
$$y = b^x$$

$b \rightarrow$ base
graph $\rightarrow x = -1, 0, 1$

$b > 1$



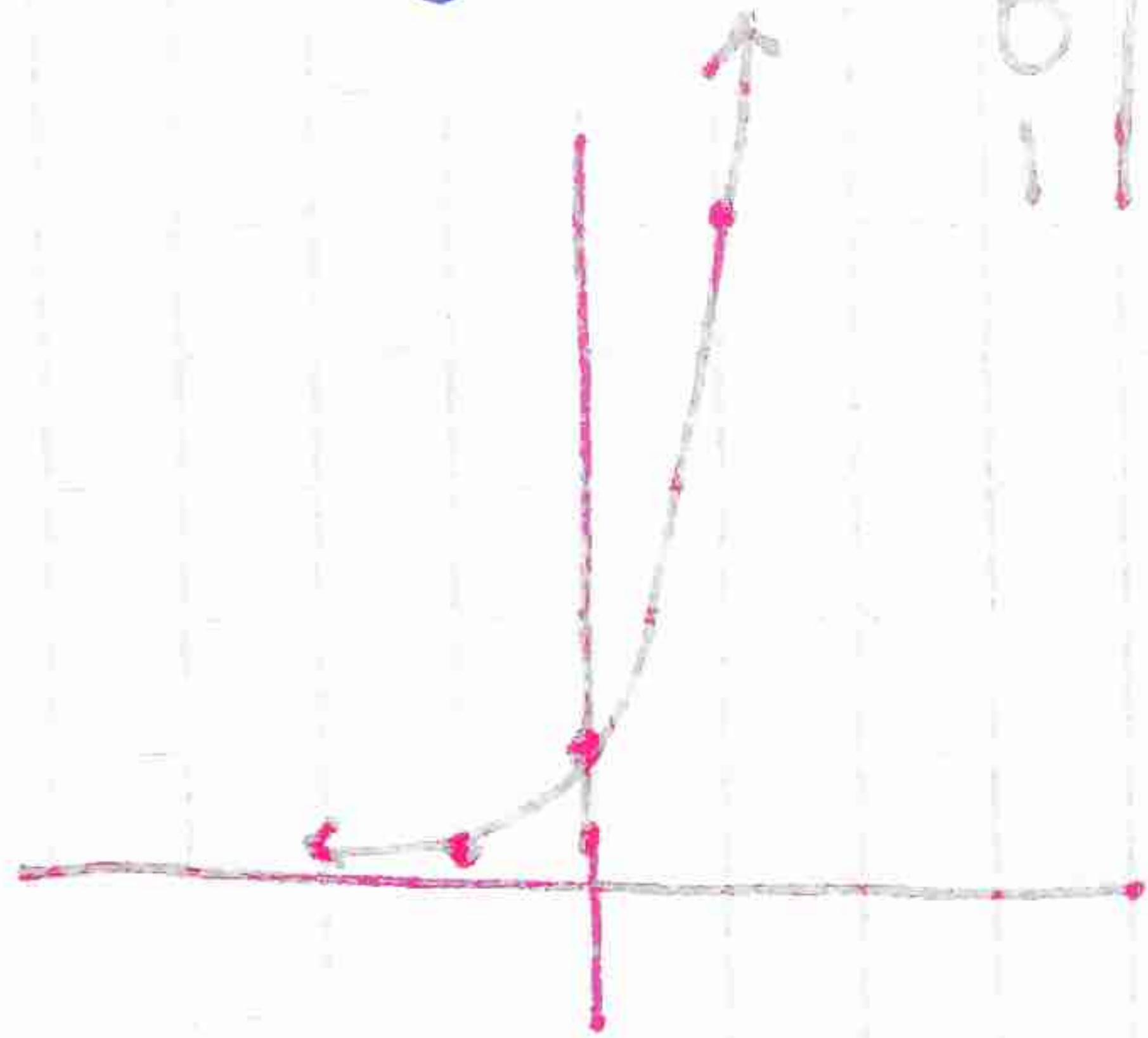
$0 < b < 1$



ex 1 Graph

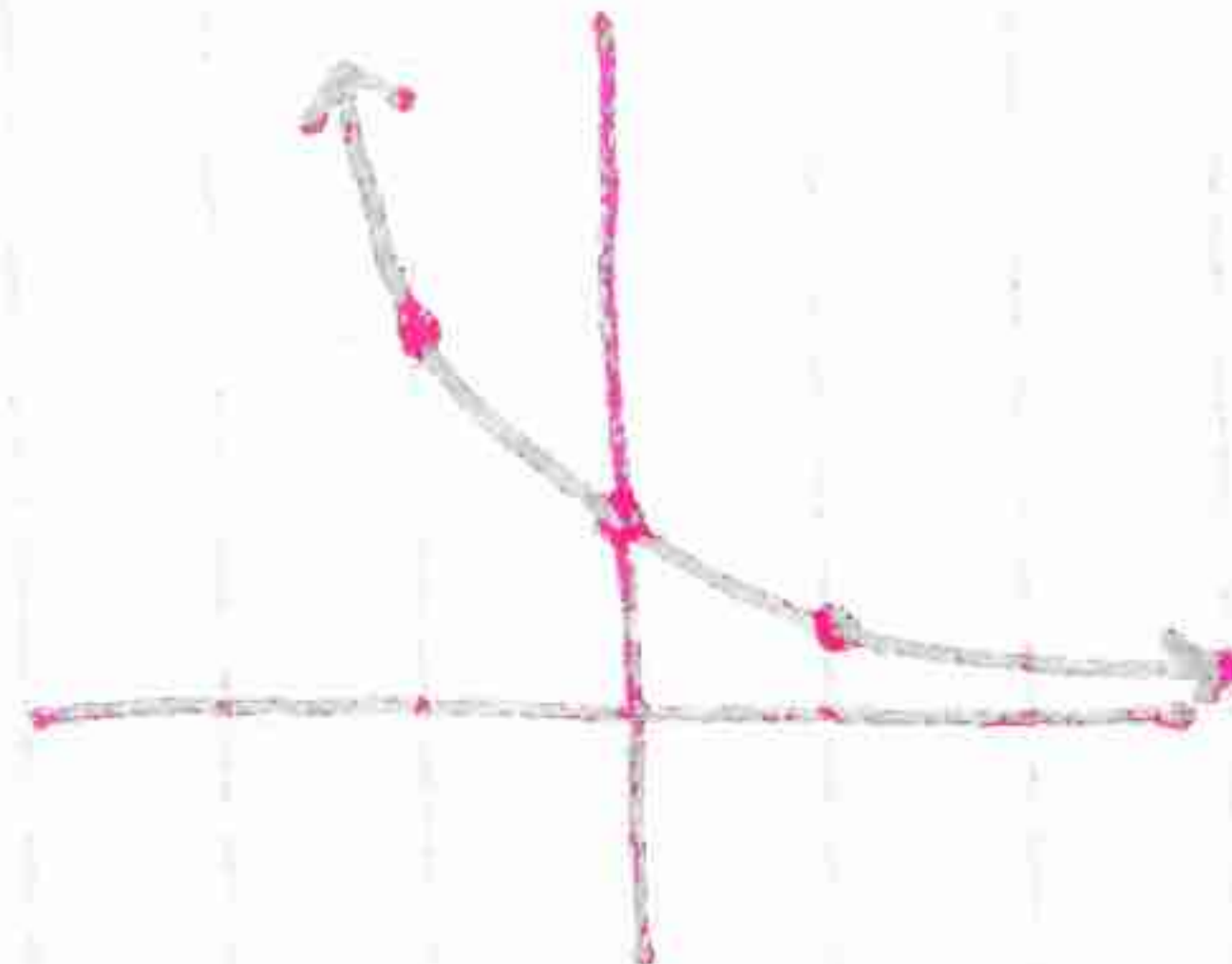
a) $y = 5^x$

x	y
-1	1/5
0	1
1	5



b) $y = \frac{1}{2}^x$

x	y
-1	2
0	1
1	1/2



ex 2 describe the transformations

a) $y = 3^x + 2$

U2

b) $y = -2^{-x}$

over x-axis &
y-axis

c) $y = 4^{x+1}$

L1

d) $y = 2 - 5^x$
 $y = -5^x + 2$

over x-axis, U2

e) $y = 10^{-x+2}$
 $y = 10^{-(x-2)}$

over y-axis,
R2

f) $y = 3(\frac{1}{2})^{x+4}$

VD by 3
L4