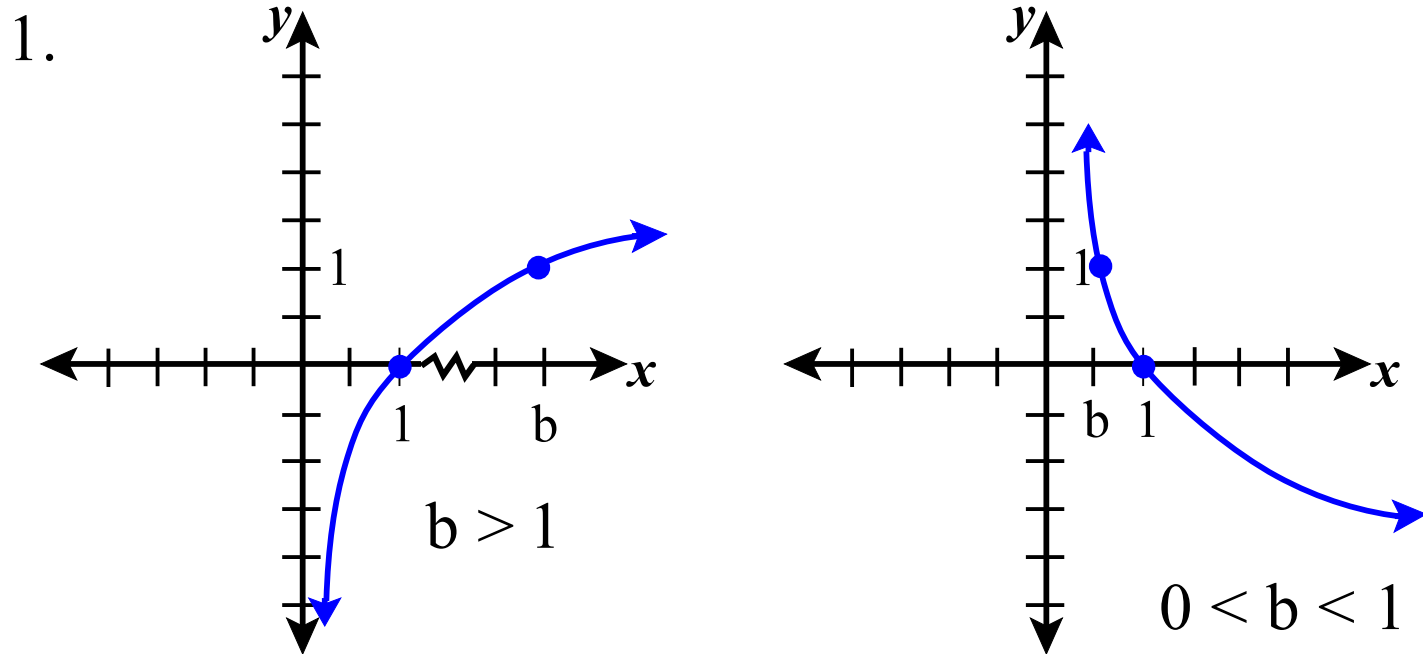


## IV. Graph Characteristics (p.695): $f(x) = \log_b x$



2.  $x$ -intercept @ (1,0) since  $f(1) = \log_b 1 = \underline{\hspace{2cm}}$
3.  $y$ -intercept: none
4. Vertical line,  $x = 0$  ( $y$ -axis) is an “asymptote”
5.  $b^y > 0$  for all values of “ $y$ ”
6. Domain =  $\{x \mid x > 0\}$  & Range =  $\{y \mid y \text{ is a real } \#\}$

## V. Examples (pp.700-701): Exercises #44,46,50,82

HW: pp.700-701 / Exercises#43-51(odd),73-85(odd)  
Read pp.704-711 (section 9.4)