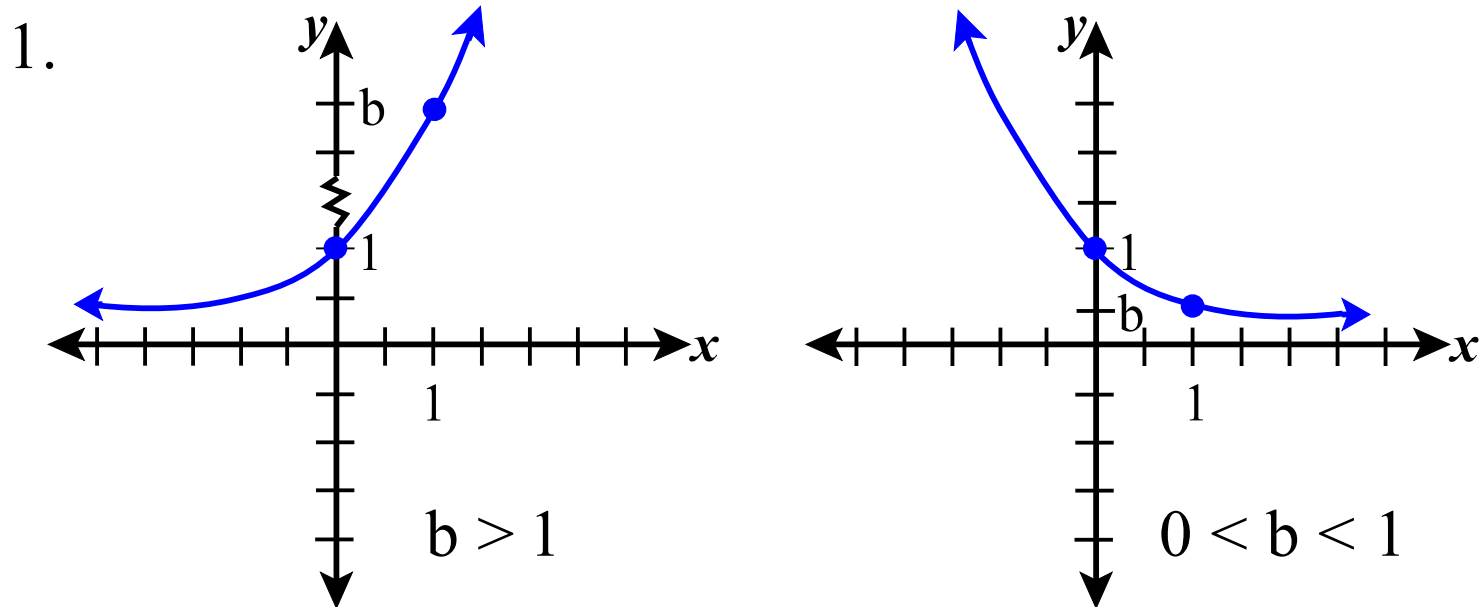


I. Basic Exponential Function (p.662):

$$f(x) = b^x \quad (\text{where } b > 0 \text{ and } b \neq 1)$$

II. Graph Characteristics (p.666):



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

III. Examples (pp.672-673): Exercises #18,22,34,44,
46

IV. Natural Base (p.667):

1. $e \approx 2.71828\dots$ (irrational #)
2. Examples (p.671): Exercises #8,10
3. Graph of $y = e^x$

x	y

HW: pp.671-673 / Exercises #1-11(odd),15,17,21,
23,43,45,47,49

Read pp.676-685 (section 9.2)