Section 5.5 P. 294 : 6, 7, 9, 10, 11, 16, 17

Challenge: 21, 23, 24

6) (a) represents a function because each x-value (domain) is associated with exactly one y-value (always 1)

(b) does not because there are an infinite number of y-values that the x-value 1 is associated with

7)
a) ⟶ iv
b) ⟶ i
c) ⟶ ii
d) ⟶ iii

Set	Interval
9) a) Domain $\{x \mid x \in R\}$ Range $\{y \mid y \geq 1, y \in R\}$	Domain $(-\infty, \infty)$ Range $[1, \infty)$
9) b) Domain $\{x \mid -3 \leq x \leq 3, x \in R\}$ Range $\{y \mid 0 \leq y \leq 3, y \in R\}$	Domain $[-3, 3]$ Range $[0, 3]$
9) c) Domain $\{x \mid -3 \leq x \leq 3, x \in R\}$ Range $\{y \mid -3 \leq y \leq 0, y \in R\}$	Domain $[-3, 3]$ Range $[-3, 0]$
d) Domain $\{x \mid -1 \leq x \leq 2, x \in R\}$ Range $\{y \mid 0 \leq y \leq 3, y \in R\}$	Domain $[-1, 2]$ Range $[0, 3]$

Please refer to the textbook for all other answers.