

Domain and Range HW Answers 10/1/14

① Domain: $\{-3, -1, 0, 2, 4\}$
Range: $\{-7, -3, -1, 3, 7\}$

② Domain: $\{-5, -4, 0, 1, 2\}$
Range: $\{-4, 2, 3, 4\}$

③ Domain: $\{1, 3, 5, 7\}$
Range: $\{-1, 4, 6\}$

④ Domain: $\{3, 1, 0\}$
Range: $\{-2, -1, 0\}$

⑤ Domain: $\{x \mid x \geq -2\}$ or Domain: $[-2, \infty)$
Range: $\{y \mid \mathbb{R}\}$ or Range: $(-\infty, \infty)$

⑥ Domain: $\{x \mid -2 \leq x \leq 2\}$ or Domain: $[-2, 2]$
Range: $\{y \mid -2 \leq y \leq 2\}$ or Range: $[-2, 2]$

⑦ Domain: $\{x \mid 0 \leq x \leq 2\}$ or Domain: $[0, 2]$
Range: $\{y \mid -2 \leq y \leq 2\}$ or Range: $[-2, 2]$

⑧ Domain: $\{x \mid \mathbb{R}\}$ or Domain: $(-\infty, \infty)$
Range: $\{y \mid y \geq -1\}$ or Range: $[-1, \infty)$

Challenge! ⑨ Domain: $\{x \mid -4 \leq x \leq -2 \text{ and } 1 \leq x < 3\}$ or Domain: $[-4, -2] \cup [1, 3)$
Range: $\{y \mid -3 < y \leq 5\}$ or Range: $(-3, 5]$

Challenge! ⑩ Domain: $\{x \mid \mathbb{R}\}$ or Domain: $(-\infty, \infty)$
Range: $\{y \mid -\infty < y \leq 4\}$ or Range: $(-\infty, 4]$