

Diagnostic questions 8-13

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1. State the domain and range

a)

D: $\{x \in \mathbb{R}\}$

R: $\{y \in \mathbb{R} \mid -4 \leq y \leq -2\}$

b)

D: $\{x \in \mathbb{R} \mid -1 \leq x \leq 7\}$

R: $\{y \in \mathbb{R} \mid -3 \leq y \leq -1\}$

c)

D: $\{1, 2, 3, 4\}$

R: $\{-5, 4, 7, 9, 11\}$

d)

D: $\{x \in \mathbb{R}\}$

R: $\{y \in \mathbb{R}\}$

e)

D: $\{-4, -3, 1, 2\}$

R: $\{0, 1, 2, 3\}$

f)

D: $\{x \in \mathbb{R}\}$

R: $\{y \in \mathbb{R} \mid y \leq 0\}$

2. State the domain and range, then determine whether the relation is a function, and justify your answer.

a)