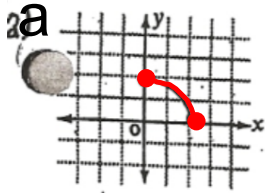


Solutions

Class/Homework

Write the domain, range, is it continuous or discrete, and is linear or nonlinear.



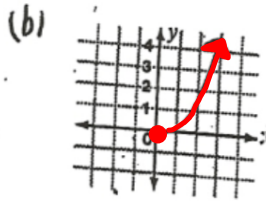
a)

Domain: $\{x \mid 0 \leq x \leq 2, x \in \mathbb{R}\}$

Range: $\{y \mid 0 \leq y \leq 2, y \in \mathbb{R}\}$

Is it continuous or discrete?

Is it linear or non linear?



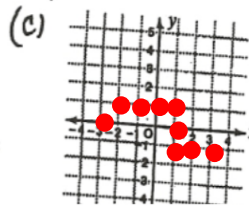
b)

Domain: $\{x \mid 0 \leq x, x \in \mathbb{R}\}$

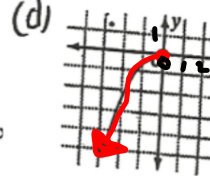
Range: $\{y \mid 0 \leq y, y \in \mathbb{R}\}$

Is it continuous or discrete?

Is it linear or non linear?



(c)



(d)

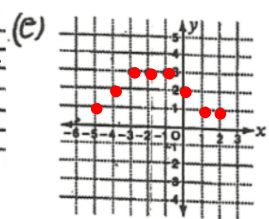
c)

Domain: $\{x \mid -3 \leq x \leq 3, x \in \mathbb{I}\}$

Range: $\{y \mid -1 \leq y \leq 1, y \in \mathbb{I}\}$

Is it continuous or discrete?

Is it linear or non linear?



(e)

d)

Domain: $\{x \mid x \leq 0, x \in \mathbb{R}\}$

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

Is it continuous or discrete?

Is it linear or non linear?

e)

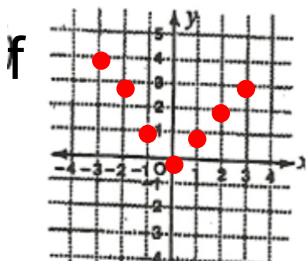
Domain: $\{x \mid -5 \leq x \leq 2, x \in \mathbb{I}\}$

Range: $\{y \mid 1 \leq y \leq 3, y \in \mathbb{I}\}$

Is it continuous or discrete?

Is it linear or non linear?

Solutions



f)

Domain: $\{x \mid -3 \leq x \leq 3, x \in \mathbb{I}\}$

Range: $\{y \mid 0 \leq y \leq 4, y \in \mathbb{I}\}$

Is it continuous or discrete?

Is it linear or non linear?

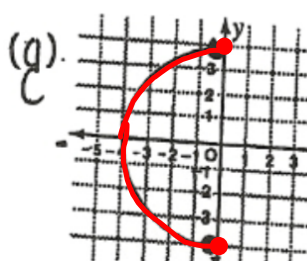
i)

Domain: $\{x \mid x \in \mathbb{R}\}$

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

Is it continuous or discrete?

Is it linear or non linear?



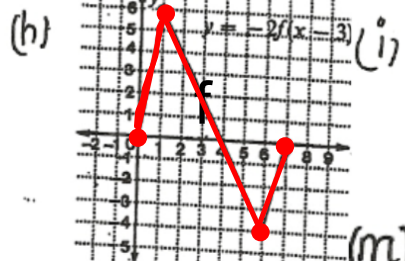
g)

Domain: $\{x \mid -4 \leq x \leq 0, x \in \mathbb{R}\}$

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

Is it continuous or discrete?

Is it linear or non linear?



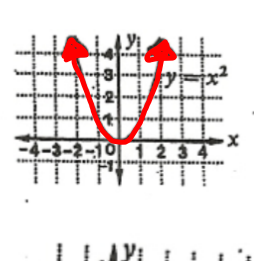
a)

Domain: $\{x \mid 0 \leq x \leq 7, x \in \mathbb{R}\}$

Range: $\{y \mid -4 \leq y \leq 6, y \in \mathbb{R}\}$

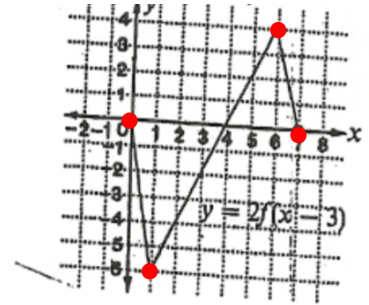
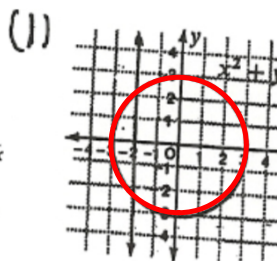
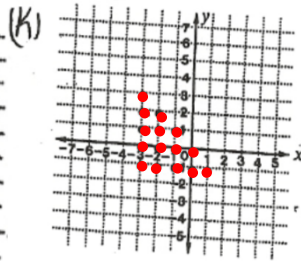
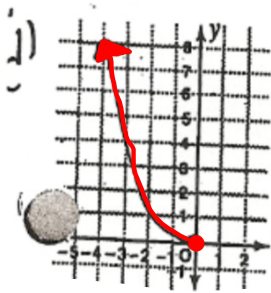
Is it continuous or discrete?

Is it linear or non linear?



Solutions

Class/Homework Write the domain, range, is it continuous or discrete, and is linear or nonlinear.



j)

Domain: $\{x \mid x \leq 0, x \in \mathbb{R}\}$

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

Is it continuous or discrete?

Is it linear or non linear?

k)

Domain: $\{x \mid -3 \leq x \leq 1, x \in \mathbb{I}\}$

Range: $\{y \mid 1 \leq y \leq 3, y \in \mathbb{I}\}$

Is it continuous or discrete?

Is it linear or non linear?

l)

Domain: $\{x \mid -3 \leq x \leq 3, x \in \mathbb{R}\}$

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

Is it continuous or discrete?

Is it linear or non linear?

m)

Domain: $\{x \mid 0 \leq x \leq 7, x \in \mathbb{R}\}$

Range: $\{y \mid -5 \leq y \leq 4, y \in \mathbb{R}\}$

Is it continuous or discrete?

Is it linear or non linear?