Relations & Functions

Given the relation: $\{(-7,2), (-5,3), (0,1), (4,6)\}$

① State the Domain

② State the Range

③ express the relation as a Domain/Range table

For each relation below:

a) construct a Domain / Range table

b) use the table to determine if the relation is a function

④ $\{(1,2), (3,0), (-1,2), (4,10)\}$

⑤ $\{(-2,1), (0,3), (4,2), (0,5)\}$

Evaluating Functions. Let $f(x) = 3x-2$.

⑥ $f(0) = ?$ ⑦ $f(3) = ?$ ⑧ $f(-1) = ?$

⑨ $f(\frac{1}{3}) = ?$ ⑩ $f(10) = ?$

Answers.

① $\{-7, -5, 0, 4\}$ ② $\{2, 3, 1, 6\}$ ③

D	R
-7	$\rightarrow 2$
-5	$\rightarrow 3$
0	$\rightarrow 1$
4	$\rightarrow 6$

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Answers:

④

D	R
1	2
3	0
-1	2
4	10

function

⑤

D	R
-2	1
0	3
4	2
	5

not a function

⑥ $f(0) = -2$

⑦ $f(3) = 7$

⑧ $f(-1) = -5$

⑨ $f(\frac{1}{3}) = -1$

⑩ $f(10) = 28$