

Name _____

Date _____

Determine if the relation is a function.

- 1) The number of tests in various classes:

Math	10
English	6
History	10
Biology	6
Psychology	2

- 2) A store's "Employee of the Month" for various months:

Thompson	April
McGraw	May
Robinson	June
Thompson	July
Martinez	August

- 3) Tips earned by servers at a restaurant one evening:

Mary	\$41
Lucy	\$33
Eric	\$26
Simon	\$41
Ruth	\$65

- 4) Credit card expenses on Jim's monthly bill:

Gas station	\$18.55
Restaurant	\$64.00
Grocery	\$87.99
Restaurant	\$64.50
Gas station	\$19.47

Find the domain and range of the relation.

5) $\{(9, -8), (-2, -4), (4, -11), (1, -7), (7, -10)\}$

9) $\{(9, 6), (7, 8), (5, -3), (3, 8), (-3, 6)\}$

6) $\{(-6, 8), (-6, -7), (2, 2), (-7, -5), (-3, 6)\}$

10) $\{(8, 13), (-7, 11), (5, -2), (8, -11), (-7, 13)\}$

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

Determine whether the relation is a function.

11) $\{(-1, -7), (1, -6), (4, -8), (9, 8), (10, -7)\}$

8) $\{(4, -8), (11, 3), (2, -6), (5, -7)\}$

12) $\{(-6, 9), (-3, -9), (1, -4), (1, 5)\}$

13) $\{(-6, 4), (-6, 2), (1, 4), (6, -3), (8, 9)\}$

17) $\{(5, 9), (9, 12), (5, 10), (1, 4)\}$

14) $\{(2, -4), (2, 8), (6, -3), (7, 2), (11, 9)\}$

18) $\{(-3, 5), (-1, 6), (1, 5), (3, 6)\}$

15) $\{(-3, 9), (-1, 1), (4, -7), (7, -1)\}$

19) $\{(-8, -4), (-8, 3), (2, 5), (6, 8), (10, 4)\}$

16) $\{(-6, -1), (-1, 7), (3, 3), (3, -8)\}$

20) $\{(-3, -3), (-1, 1), (1, -8), (5, -2)\}$

Answer Key

Testname: 03-05CARSONFUNCTIONDOMAINRANGEV01

- 1) It is a function.
- 2) It is not a function.
- 3) It is a function.
- 4) It is not a function.
- 5) Domain: {4, 9, -2, 7, 1}; Range: {-11, -8, -4, -10, -7}
- 6) Domain: {-6, 2, -7, -3}; Range: {-7, 2, -5, 6, 8}
- 7) Domain: {-6, 5, 2}; Range: {4, 3, 1, 6}
- 8) Domain: {11, 2, 5, 4}; Range: {3, -6, -7, -8}
- 9) Domain: {9, 7, 5, 3, -3}, Range: {6, 8, -3}
- 10) Domain: {8, -7, 5}, Range: {13, 11, -2, -11}
- 11) It is a function.
- 12) It is not a function.
- 13) It is not a function.
- 14) It is not a function.
- 15) It is a function.
- 16) It is not a function.
- 17) It is not a function.
- 18) It is a function.
- 19) It is not a function.
- 20) It is a function.