

Functions Do Now**Multiple Choice***Identify the choice that best completes the statement or answers the question.*

1. Which set of ordered pairs represents a function?

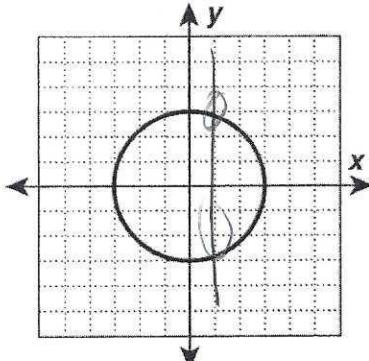
- a. $(2, 5), (1, 6), (0, 5), (1, 10)$
b. $(0, 0), (1, 1), (2, 0), (3, 3)$

- c. $(2, 1), (3, 1), (5, 1), (5, 4)$
d. $(5, 4), (4, 5), (1, 2), (1, 4)$

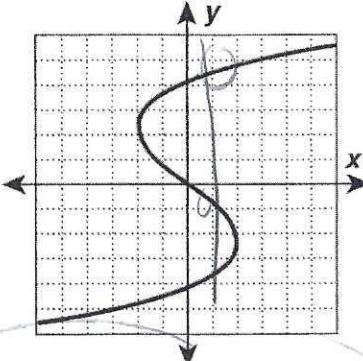
x is Don't repeat, every x can only have 1 y value

2. Which graph shows a function?

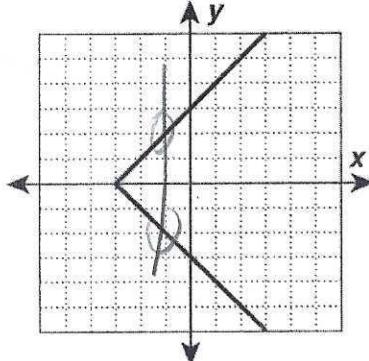
a.



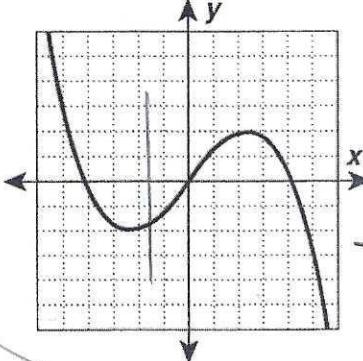
c.



b.



d.



Only goes through one

** passes the vertical line test (only goes through 1 time)*

3. Which set of points represents a function?

a. $(4, 2), (4, -2), (2, 5), (2, -5)$

b. $(-3, 9), (-2, 4), (0, 0), (-2, 4)$

- c. $(-3, 7), (7, 3), (-3, 4), (-7, -3)$
d. $(3, 0), (0, 6), (1, 5), (0, 0)$

Some point! So it is a function

4. Which of these functions is not a linear function?

a. $f(x) = x$

b. $f(x) = 3^x$

c. $f(x) = 3x$

d. $f(x) = 3x - 2$

1st power

5. Determine if the relation represents a function.

x	y
0	-5
1	-1
2	3
3	6

- a. The relation is a function.

X's Don't
repeat

- b. The relation is not a function.

Every element of the Domain corresponds
to one & only one element of the range

6. Which of these tables shows direct variation?

- a.

x	-1	0	1	2
y	18	21	24	28

↓
-linear

- c.

x	-1	0	1	2
y	1	3	6	10

- Constant
rate of change

- b.

x	-1	0	1	2
y	-3	0	3	6

- goes through (0,0)

x	-1	0	1	2
y	-2	-1	1	2

- d.

* $\frac{14}{X}$

$$\begin{array}{l} \frac{3}{-1} = 3 \\ \frac{3}{1} = 3 \\ \frac{6}{2} = 3 \end{array} \left\{ \begin{array}{l} \text{constant} \end{array} \right.$$