

Name: _____

Date: _____

Unit 4

WS # 2 Relations & functions Review

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1. Find the next three ordered pairs for each table of values.

a)

X	1	3	5			
Y	2	-1	-4			

b)

X	-2	-5	-8			
Y	-1	3	7			

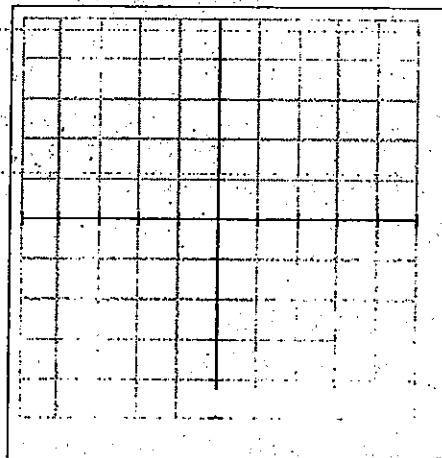
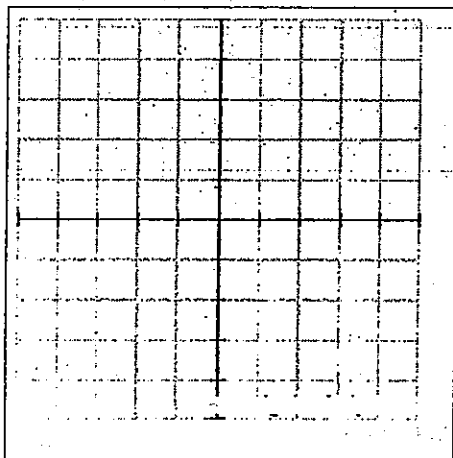
2. Complete each table of values. Graph each linear relation on the Cartesian plane provided.

a)

X	-3	-1	1	3	5	7
Y	3	2	1			

b)

X	-2	0	2	4	6	8
Y				-1	1	3



3. Create a table of values for each linear relation.

a) $y = x + 3$

X	0	2	4
Y			

b) $y = 2x - 1$

X	0	2	4
Y			

c) $y = -x + 2$

X	0	2	4
Y			

d) $y = \frac{-1}{2}x - 4$

X	0	2	4
Y			

4. Find the slope of the line that passes through each pair of points.

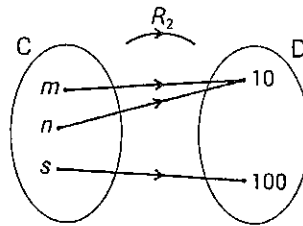
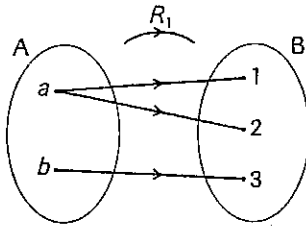
a) (3, -4) & (-2, 6)

b) (6, -4) & (-1, -5)

c) (-4, 5) & (3, 5)

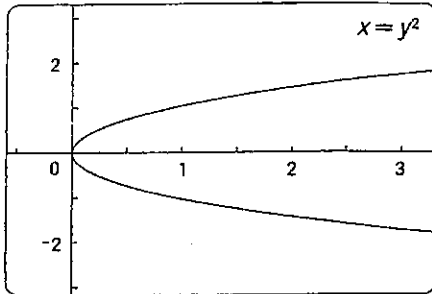
d) (6, 2) & (10, 2)

- ① Which of the following mapping diagrams does not represent a function? Justify your answer.

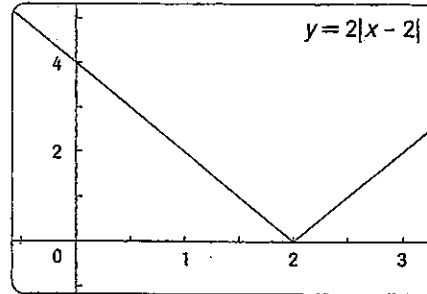


- ② Which of the following graphs represents a function? Justify your answer.

A)



B)



- ③ Determine whether each set corresponds to a function.

a) $\{(-4, 4), (-3, 3), (-2, 2), (-1, 1), (0, 0)\}$

b) $\{(a, b), (a, c), (b, c), (c, a)\}$

c) $\{(1, 8), (8, 1), (2, 8), (8, 2)\}$

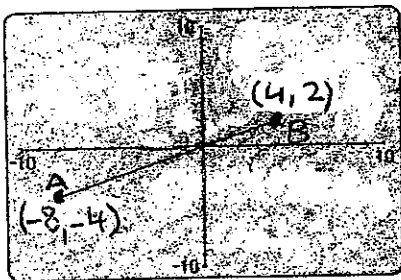
d) $\{(1, 1^2), (2, 2^0), (3, 0^2), (\sqrt{4}, 2)\}$

- ④ A function f is defined by the rule $f(x) = 2x^2 - 3x$. Calculate the following images.

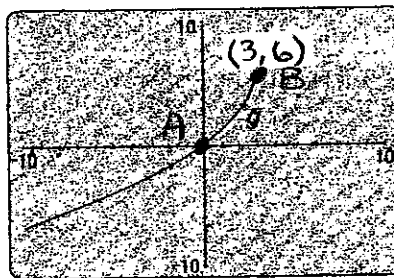
a) $f(0) = \underline{\hspace{2cm}}$ b) $f(2) = \underline{\hspace{2cm}}$ c) $f(-1) = \underline{\hspace{2cm}}$ d) $f(\frac{1}{2}) = \underline{\hspace{2cm}}$

- ⑤ Find the rate of change between points A and B for each of the following

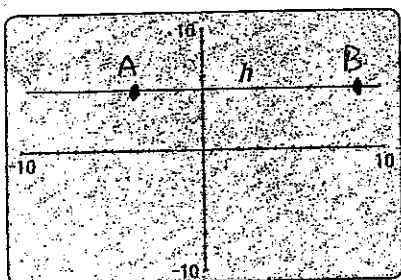
a)



b)



c)



d)

