

Linear Relations

Name: _____

Date: _____

Review

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			

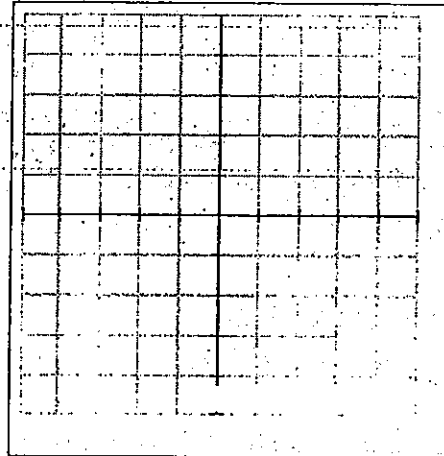
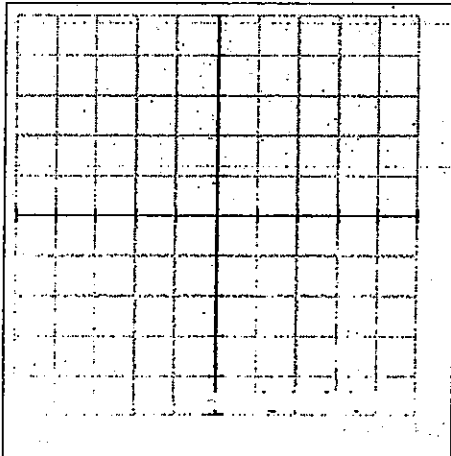
2. Complete each table of values. Graph each linear relation on the Cartesian plane provided.

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)

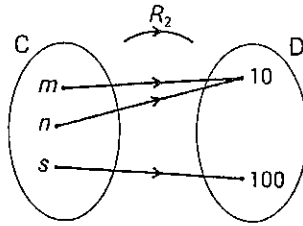
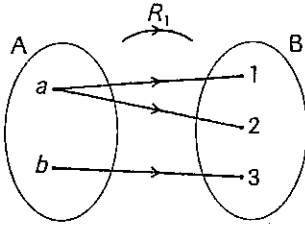
b) (6,-4) & (-1,-5)

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

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

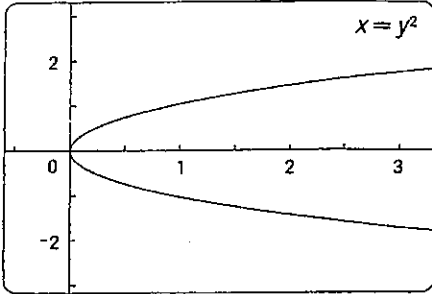
→ means R.D.C

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

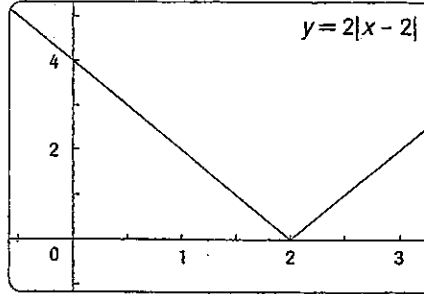


② Which of the following graphs represents a function? Justify your answer.

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

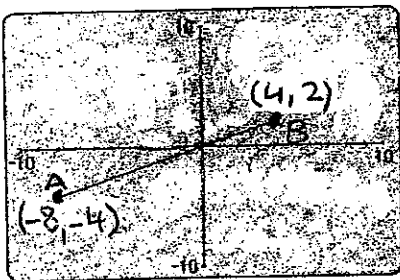
~~e) $\{(2, -1), (-2, 2), (3, 5), (-3, 3)\}$~~

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

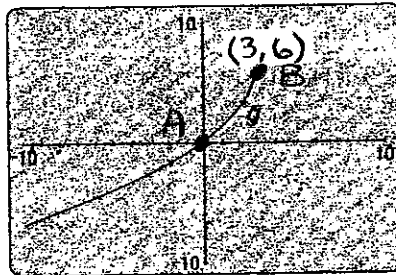
a) $f(0) = \underline{\hspace{2cm}}$ b) $f(2) = \underline{\hspace{2cm}}$ c) $f(-1) = \underline{\hspace{2cm}}$ d) $f(\frac{1}{2}) = \underline{\hspace{2cm}}$

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

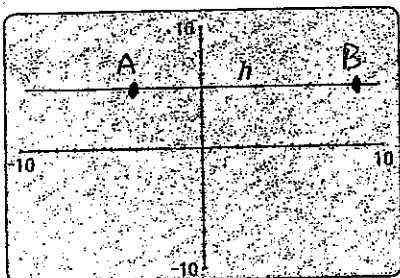
a)



b)



c)



d)

