

BE-1A WEDNESDAY 1-9-08

- ① Solve $\frac{2}{7}x = 4$
- ② $\{0, 1, 2, 3, \dots\} = ?$
- ③ Find the domain of:
 $(2, 6), (-4, 3), (0, 1)$.
- ④ $(0, 0)$ is the _____.
- ⑤ Point $(-7, 4)$ is in Quadrant _____.

Take out homework $\Rightarrow$ Pg. 195 #13-36.

relation A set of ordered pairs

↓
collection

ex) $(2, 6), (-4, 3), (0, 1)$

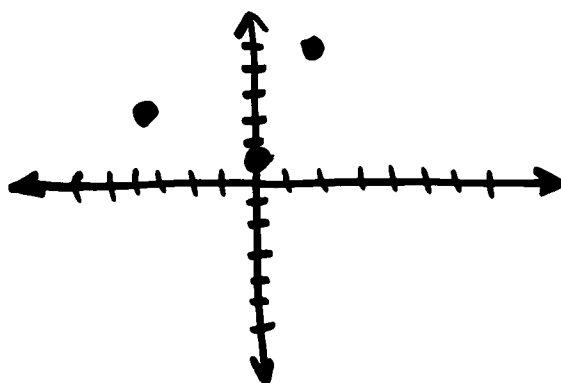
Ch. 4-3 "Relations"

Three common ways to show a relation, for example, $(2,6), (-4,3), (0,1)$ ARE:

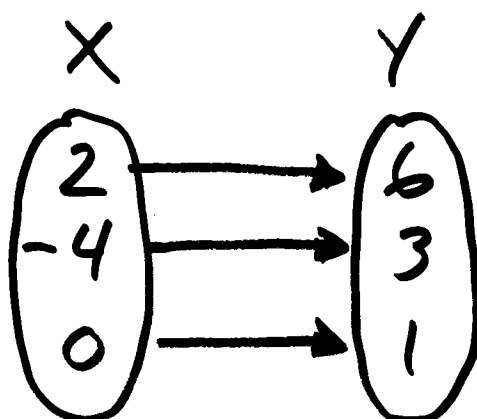
Table

X	Y
2	6
-4	3
0	1

Graph



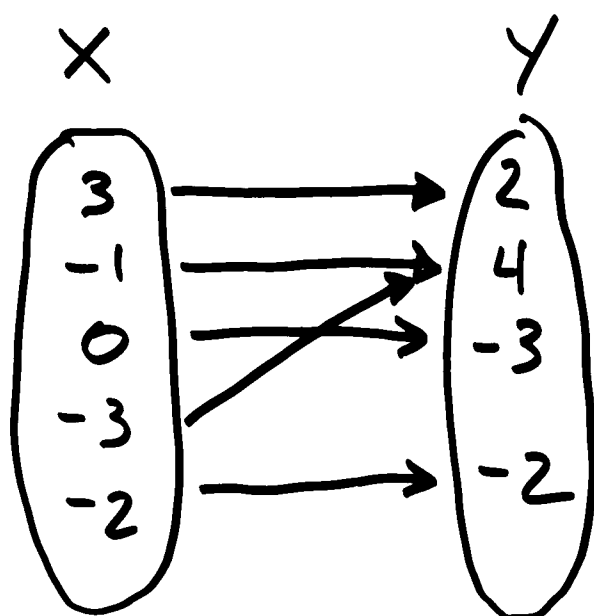
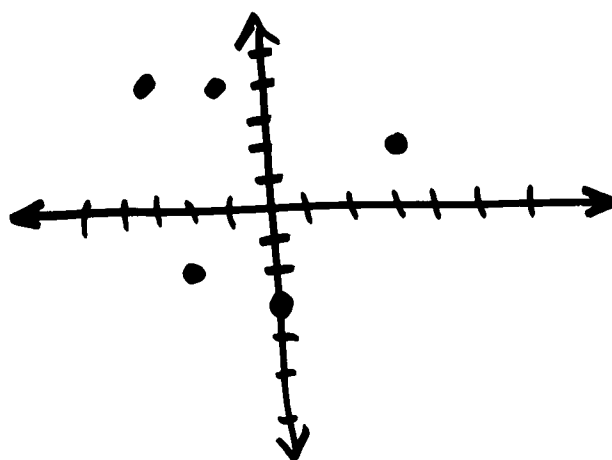
Mapping



Ex 1
Pg 205

Express the relation
 $\{(3, 2), (-1, 4), (0, -3), (-3, 4), (-2, -2)\}$
 as a table, graph, and mapping

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



EX 2
pg 206

Bald eagle population
in New York park

YEAR	EAGLES
1993	102
1994	116
1995	144
1996	174
1997	175
1998	177
1999	244
2000	350

- Ⓐ What is the domain? The range?
- Ⓑ GRAPH THE data.

(see pg 206 for graph)

Q What does the word "inverse" mean

A To flip upside down

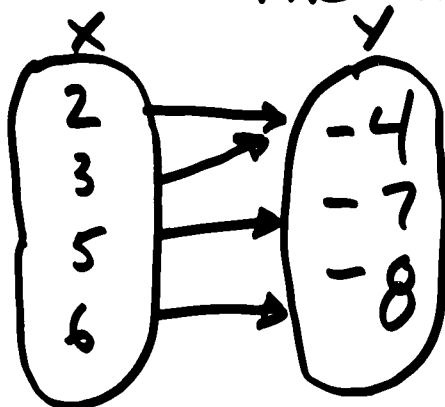
Finding the inverse of A relation:

SWAP the X and Y values.

EX)	RELATION	INVERSE
	$(2, 5)$	$(5, 2)$
	$(-3, 2)$	$(2, -3)$
	$(6, 7)$	$(7, 6)$
	$(5, -1)$	$(-1, 5)$

EX 3
Pg 207

Express THIS relation AS A set of ordered pairs. Then write the inverse of the relation.



RELATION	INVERSE
$(2, -4)$	$(-4, 2)$
$(3, -4)$	$(-4, 3)$
$(5, -7)$	$(-7, 5)$
$(6, -8)$	$(-8, 6)$

Homework
Read Ch 4-3
Pg 208 # 4, 5,
9 to 12
14 to 17