Algebra 1 B **Name _____**

Unit 1 Review **Period _____ Date _____**

Objective 1 – Define the following words.

1. Relation
2. Function
3. Domain
4. Range

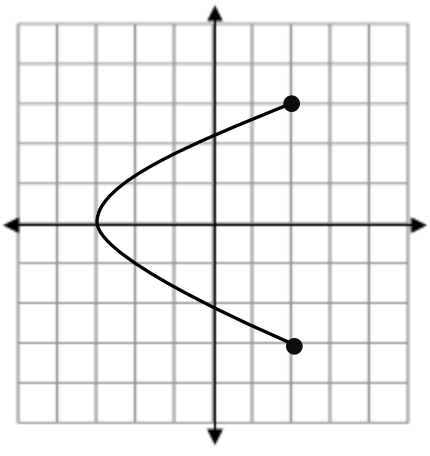
Objective 2 – Determine whether each relation is a function. If the relation *is* a function, write "YES" on the line provided; if the relation *is not* a function, write "NO" on the line provided.

5. $\{(5,2),(6,2),(-5,5),(-6,2)\}$ _____

6. _____

x	–7	–5	–3	–1	1
y	4	4	4	4	4

Objective 3 – Determine whether each relation is a function. If the relation *is* a function, write "YES" on the line provided; if the relation *is not* a function, write "NO" on the line provided.

7. 

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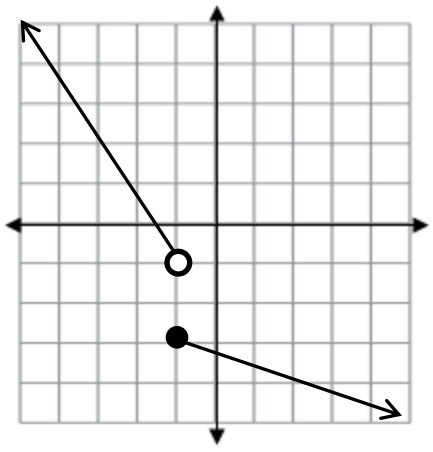
8. 

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Objective 4 – State the domain and range for each relation. Write the domain and range in the space provided, using set notation.

9. $\{(5,2),(6,2),(-5,5),(-6,2)\}$

Domain _____

Range _____

10.

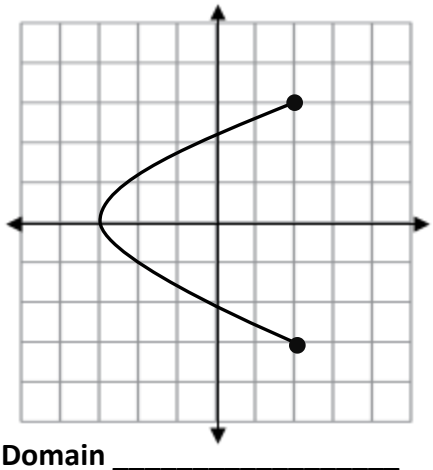
x	–7	–5	–3	–1	1
y	4	4	4	4	4

Domain _____

Range _____

Objective 5 – State the domain and range for each graph. You may use interval notation or inequality signs. Write your answers in the space provided.

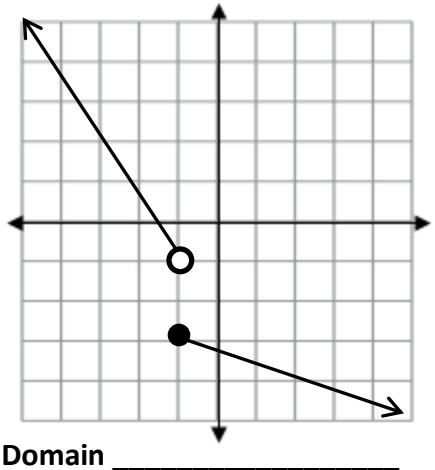
11.



Domain _____

Range _____

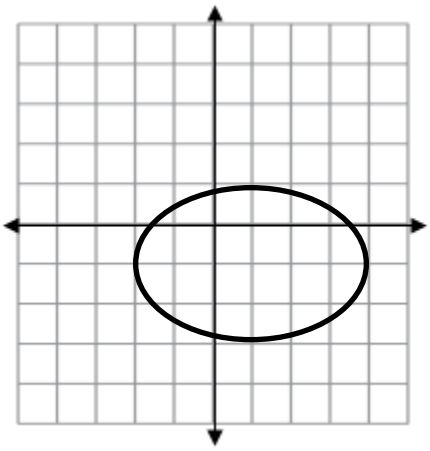
12.



Domain _____

Range _____

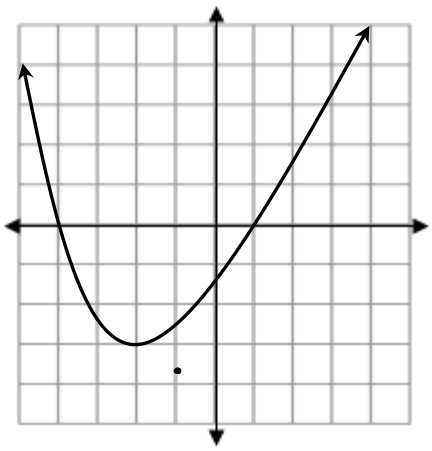
13.



Domain _____

Range _____

14.



Domain _____

Range _____

Objective 6 – Find the pattern in the sequence; then use the pattern to find the next 3 terms in the sequence.

15.

x	2	4	6	8	10	12
y	–2	–8	–14			

16.

x	–2	0	2	4	6	8
y	5	2	–1			

17.

x	–2	–1	0	1	2	3	4
y	5	3	–1	–7			

Objective 7 – Express the pattern in the tables as an equation. Write your final equation on the line provided.

18.

x	–2	0	2	4	6
y	11	8	5	2	–1

Equation: _____

19.

x	–6	–5	–4	–3	–2
y	–5	0	5	10	15

Equation: _____

20.

x	15	12	9	6	3
y	10	9	8	7	6

Equation: _____