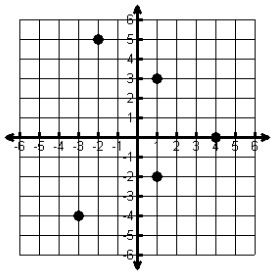**Unit 1 Linear Relations**
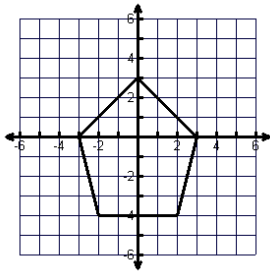**Day 1 to Day 10 Review**
Part 2

Name_____

Date_____   Hour____

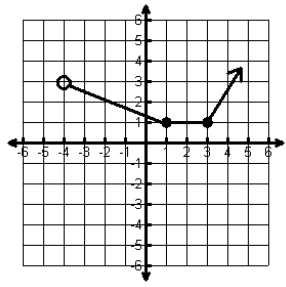**State the domain and range for each graph and tell if the graph is a function (write yes or no).**

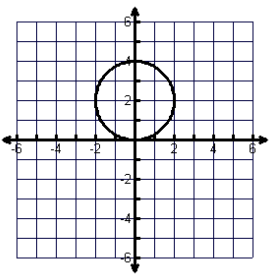**1.** Domain_____

Range_____

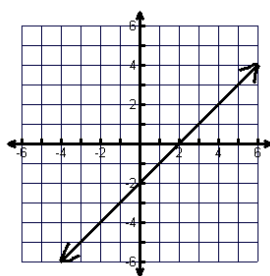Function?_____

2. Domain_____

Range_____

Function?_____

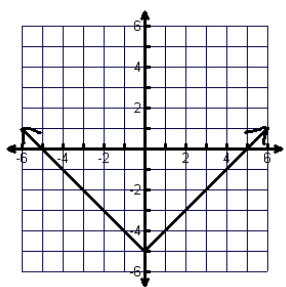**3.** Domain_____

Range_____

Function?_____

4. Domain_____

Range_____

Function?_____

5. Domain_____

Range_____

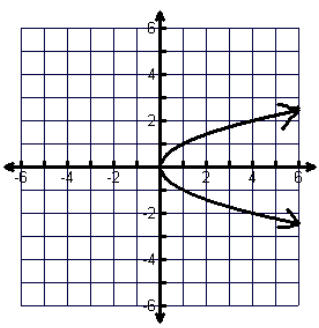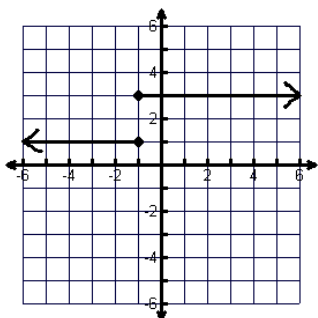Function?_____

6. Domain_____
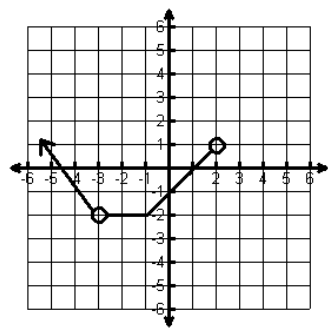
Range_____

Function?_____

7. Domain_____

Range_____

Function?_____

8. Domain_____

Range_____

Function?_____

9. Domain_____

Range_____

Function?_____

10. Find the domain and range for the following relation. Is it a function?
{(−3, −7), (−1, −3), (0, −1), (2, 3), (4, 7)}

Domain_____   Range_____   Function?_____

Simplify by distributing and collecting like terms. Show your work.

11. $3(4x + 6) + 7x =$

12. $6m + 3(2m + 5) + 7 =$

13. $7(2 + 3x) + 8 =$

14. $5(m + 9) - 4 + 8m =$

Find the range of the function for the given domain.

15. $y = -3x + 1;\ \{-2, -1, 0\}$

Translate each of the following into an equation.

16.   The product of 9 and "m" is 45.   _____

17.   The quotient of "y" and 3 is 25.   _____

18.   One-fifth of "r" is 15.   _____

19.   Six less than 2 times "y" is 34.   _____

20.   The difference of "p" and 7 is 30.   _____

21.   The sum of 3y and 5 is 47.   _____

22.   The 3 times the quantity of 5 plus x is 7.   _____

Match the vocabulary to the correct definition. Write the answer in the blank.

_____   **23.** Algebraic Expression

_____   **24.** Coefficient

_____   **25.** Constant

_____   **26.** Term

_____   **27.** Variable

A. Each part of an expression separated by an operation

B. A number that stands by itself

C. A number that does not stand by itself. It is attached to the variable.

D. A letter that stands for a particular numerical value

E. A number sentence without an equal sign, has at least one two terms and one operation

Identify each part of the algebraic expression as the coefficient, constant, or variable.

28. 4x – 12

        4 is a(n) _____
        x is a(n) _____
        12 is a(n) _____

29. a + 3b

        a is a(n) _____
        3 is a(n) _____
        b is a(n) _____