

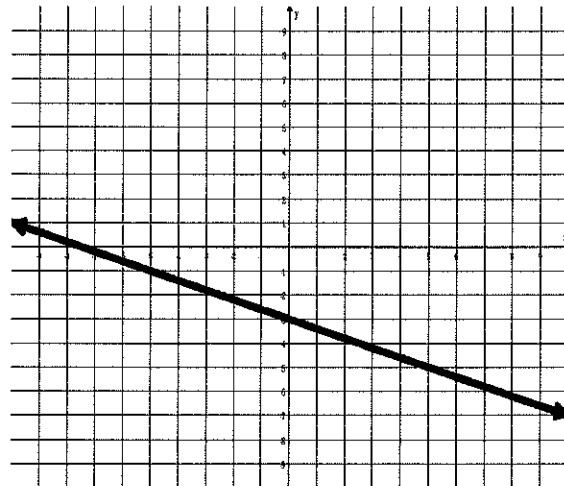
PreAP Algebra II  
Unit 1A, Assessment 1 REVIEW

Name: \_\_\_\_\_

1. How would you describe the slope of a vertical line? Write an equation of a vertical line.
2. How would you describe the slope of a horizontal line? Write an equation of a horizontal line.
3. The inverse of a function is \_\_\_\_\_ (hint: use the word reflection)
4. To find the inverse you \_\_\_\_\_

5 - 6 use the graph at right.

5. Write the equation of the given graph.



6. Graph the inverse.

7. Given the function  $f(x) = 3x - 15$ , find the inverse function algebraically.

8. What can you conclude about the slope of a function and its inverse?

9. Find the equation of the line going through the point  $(-1, -5)$  that has a slope of  $\frac{2}{3}$ .

10. If  $f(x) = 3x - 4$ ,  $g(x) = 2x + 5$  and  $h(x) = x - 6$

a. Find  $f(g(x))$ .

b. Find  $h(f(x))$

c. Find  $f(h(3))$

d. Find  $g(h(f(-1)))$

e. If  $f(g(h(x))) = 5$ , find the value of  $x$ .

11. Find the equation of the line that goes through (2,10) and (1,5).

12. Fill in the table by giving 2 examples of each type of representation. Give one example that is a function and one that is not a function.

Representation	Function	Not a function
Mapping		
Relation (ordered pairs)		
Graph		

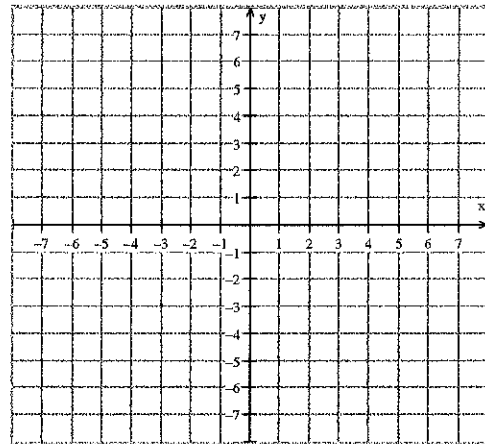
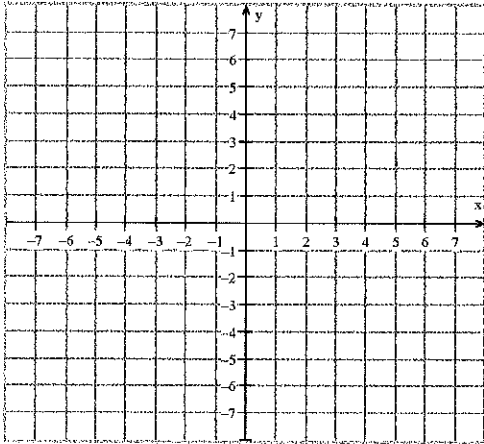
**13-14**

a. Graph the following inequalities on the graphs below

b. For each inequality, pick one point that is a solution and one point that is not a solution and prove your decision algebraically.

13.  $2x - 3y > 6$

14.  $4x + 2y \geq 12$



b. Point that is a solution \_\_\_\_\_

b. Point that is a solution \_\_\_\_\_

c. Point that is **not** a solution \_\_\_\_\_

c. Point that is **not** a solution \_\_\_\_\_

15. The table below shows the age and systolic blood pressure for a group of people who recently donated blood.

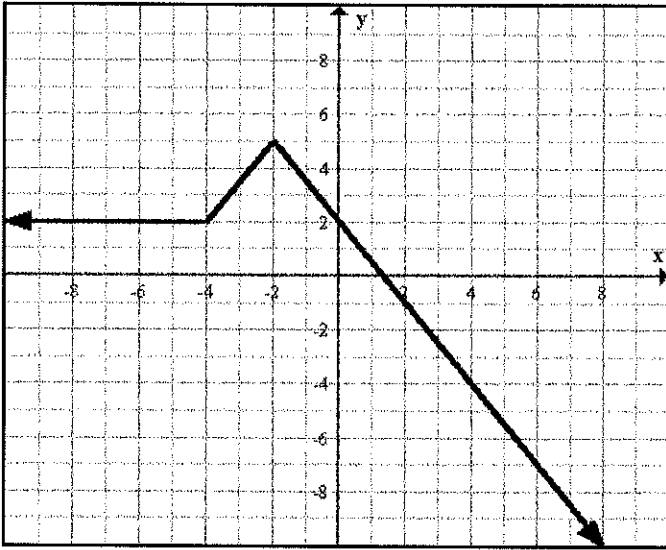
<b>Age</b>	35	48	50	34	55	30	26	41	37	24
<b>Blood Pressure</b>	128	140	135	119	146	132	104	132	121	108

a. Find the approximate systolic blood pressure of a person 54 years old. (*LinReg*)

b. Find the approximate age of a person whose systolic blood pressure is 125. (use eqt from a)

Determine if the relation is a function then find the domain and range for the following graphs.

16.



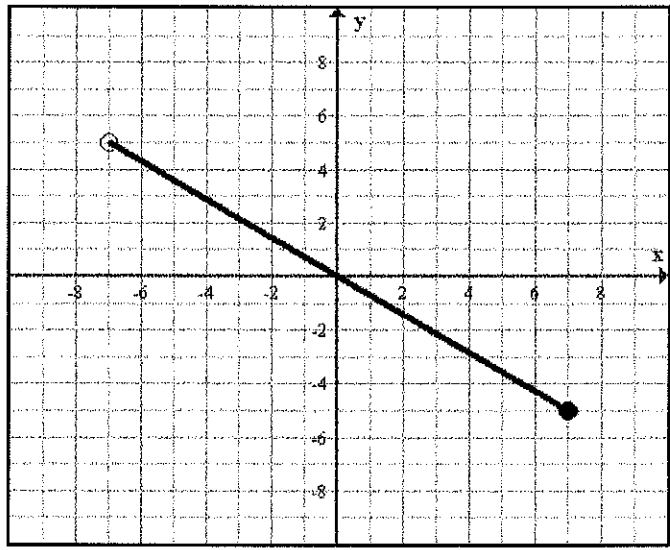
Function:

Yes/No

Domain:

Range:

17.



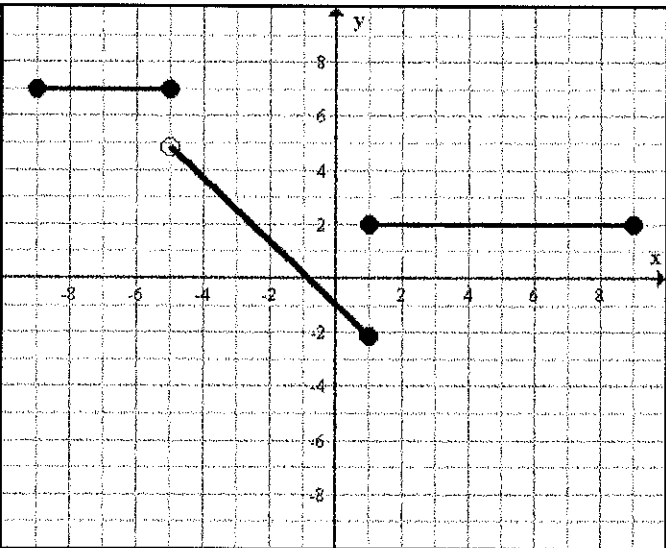
Function:

Yes/No

Domain:

Range:

18.



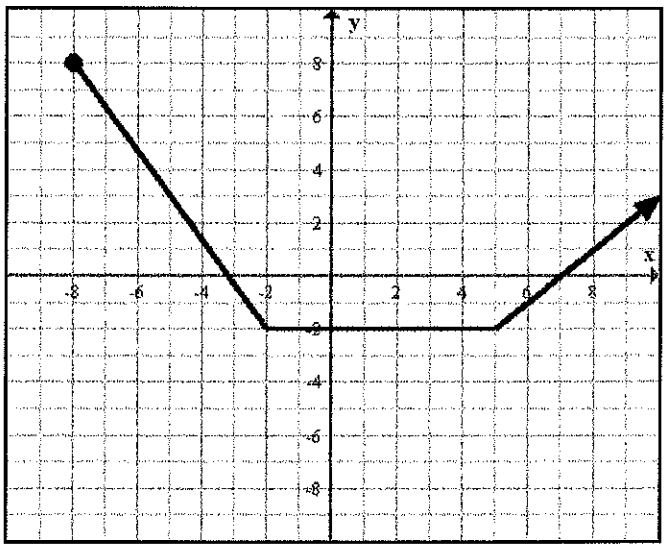
Function:

Yes/No

Domain:

Range:

19.



Function:

Yes/No

Domain:

Range: