

SECONDARY MATH I // MODULE 3
 FEATURES OF FUNCTIONS - 3.2

READY, SET, GO!

Name

Period

#

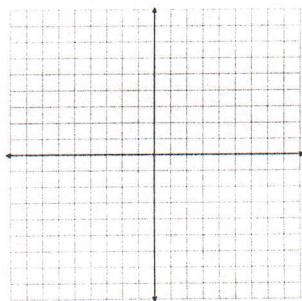
READY

Topic: Solve Linear Systems by Graphing

Graph each set of linear equations on the same set of axes. Name the coordinates of the point where the two lines intersect.

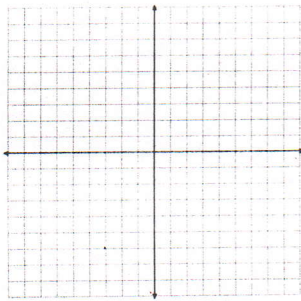
1.
$$\begin{cases} f(x) = 2x - 7 \\ g(x) = -4x + 5 \end{cases}$$

Point of intersection:



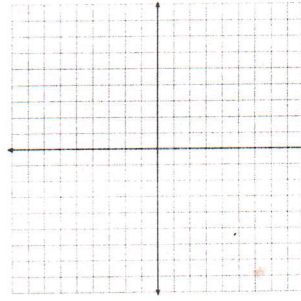
2.
$$\begin{cases} f(x) = -5x - 2 \\ g(x) = -2x + 1 \end{cases}$$

Point of intersection:



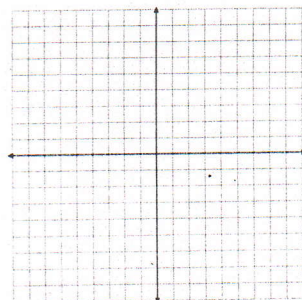
3.
$$\begin{cases} f(x) = -x - 2 \\ g(x) = 2x + 10 \end{cases}$$

Point of intersection:



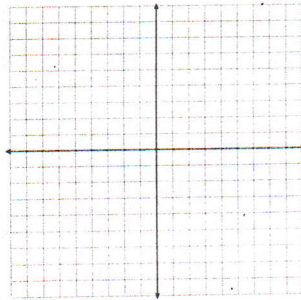
4.
$$\begin{cases} f(x) = x - 5 \\ g(x) = -x + 1 \end{cases}$$

Point of intersection:



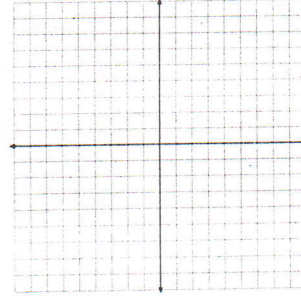
5.
$$\begin{cases} f(x) = \frac{2}{3}x + 4 \\ g(x) = -\frac{1}{3}x + 1 \end{cases}$$

Point of intersection:



6.
$$\begin{cases} f(x) = x \\ g(x) = -x - 2 \end{cases}$$

Point of intersection:

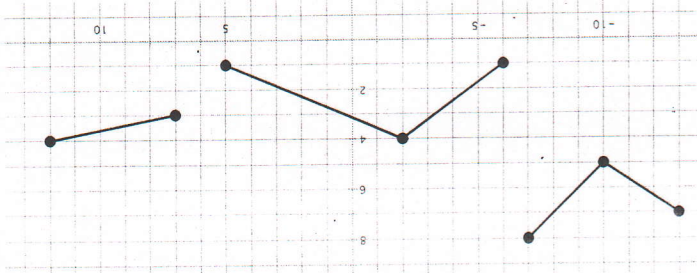


SET

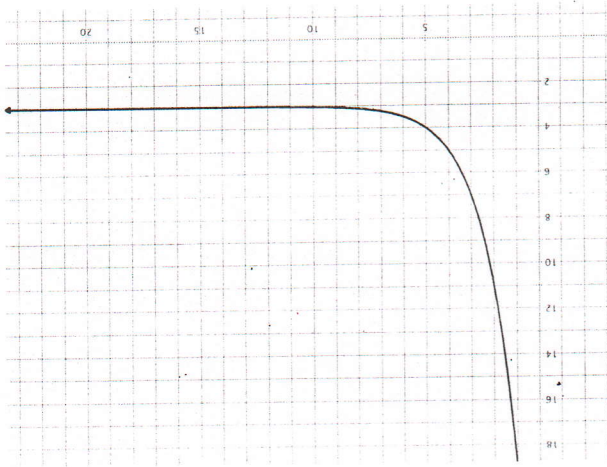
Topic: Describing attributes of a functions based on graphical representation

For each graph state 1) the interval(s) where it is increasing, decreasing, or constant 2) if it has a minimum or maximum, and 3) identify the domain and range. Use interval notation.

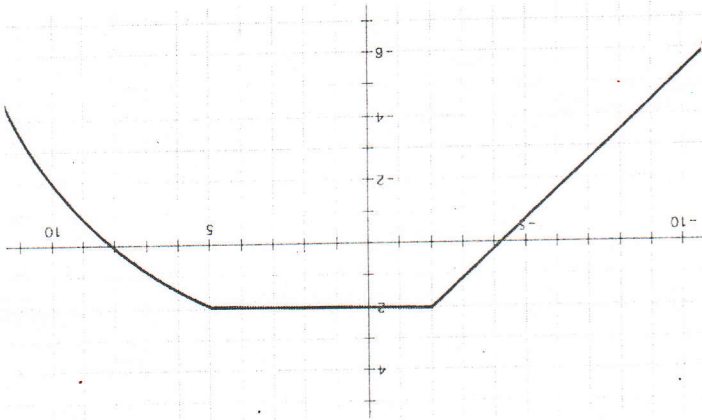
7. Description of function



8. Description of function



9. Description of function



GO

Topic: Creating both explicit and recursive equations

Write equations for the given tables in both recursive and explicit form.

10.

n	$f(n)$
1	5
2	2
3	-1

Explicit:

Recursive:

11.

n	$f(n)$
1	6
2	12
3	24

Explicit:

Recursive:

12.

n	$f(n)$
0	-13
2	-5
3	-1

Explicit:

Recursive:

13.

n	$f(n)$
1	5
4	11
5	13

Explicit:

Recursive:

14.

n	$f(n)$
2	5
7	15,625
9	390,625

Explicit:

Recursive:

15.

n	$f(n)$
0	-4
1	-16
2	-64

Explicit:

Recursive: