Ready, Set, Go!
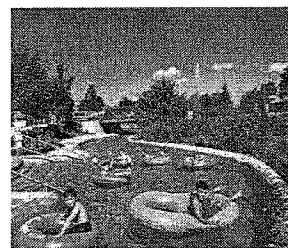
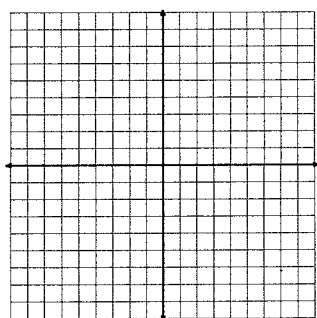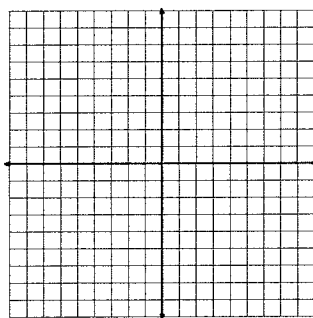### Ready

Topic: Solve systems by graphing

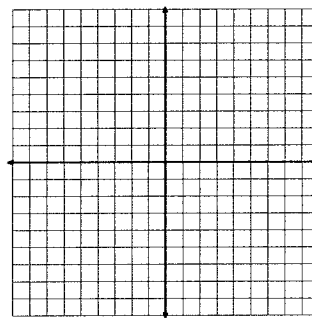**Graph each system of linear equations and find where $f(x) = g(x)$**

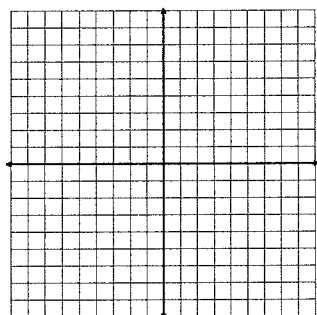1. $\begin{cases} f(x) = 2x - 7 \\ g(x) = -4x + 5 \end{cases}$

2. $\begin{cases} f(x) = -5x - 2 \\ g(x) = -2x + 1 \end{cases}$
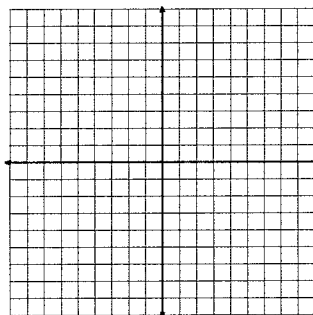
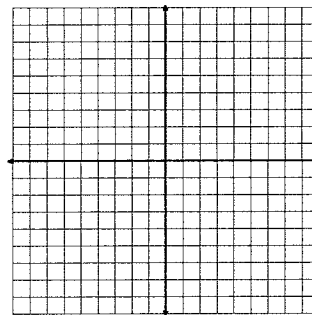3. $\begin{cases} f(x) = -\frac{1}{2}x - 2 \\ g(x) = 2x + 8 \end{cases}$

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

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

6. $\begin{cases} f(x) = x \\ g(x) = -x - 3 \end{cases}$
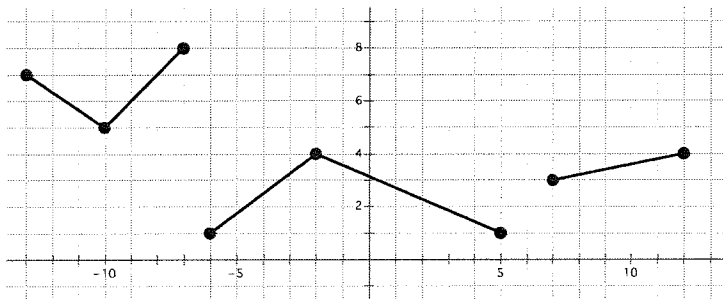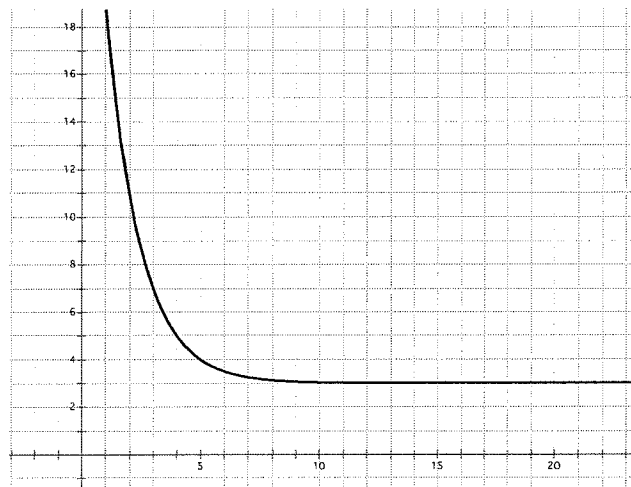
Set

Topic: Describe features of a function from its graphical representation.

For each graph given provide a description of the function. Be sure to consider the following: decreasing/increasing, min/max, domain/range, etc.
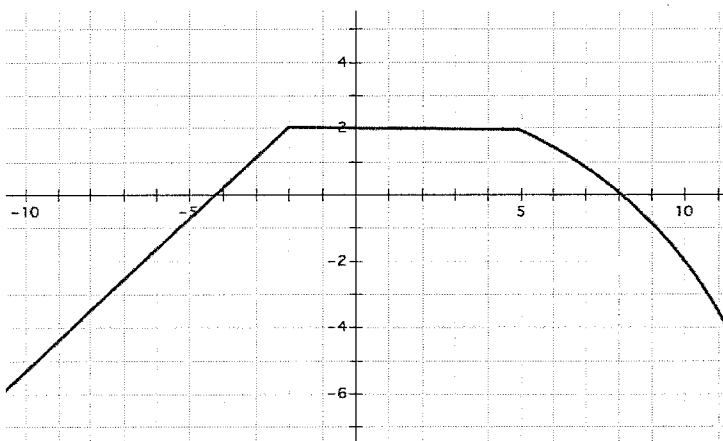
7. Description of function

8. Description of function

9. Description of function

Go

Topic: Create equations using both explicit and recursive notation.

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

10.

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

11.

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

12.

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

Explicit:

Recursive:

Explicit:

Recursive:

Explicit:

Recursive:

13.

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

14.

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

15.

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

Explicit:

Recursive:

Explicit:

Recursive:

Explicit:

Recursive: