Ready, Set, Go!

Ready

Topic: Recognizing the greater rate of change when comparing 2 linear functions or 2 exponential functions.

Decide which function is growing faster

1.

2.

3.

4.

5.

6.
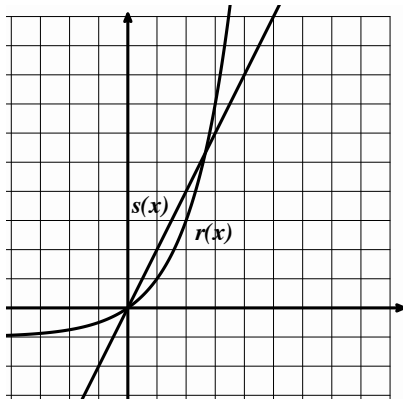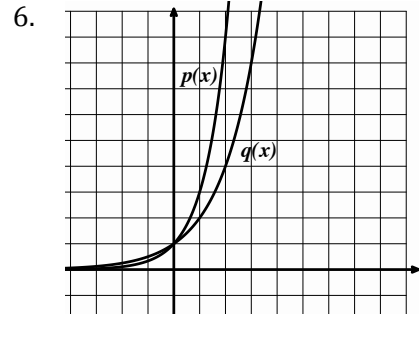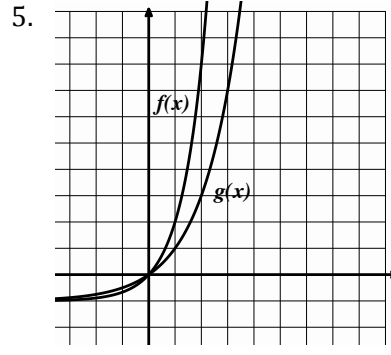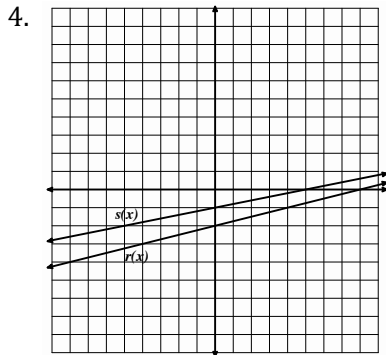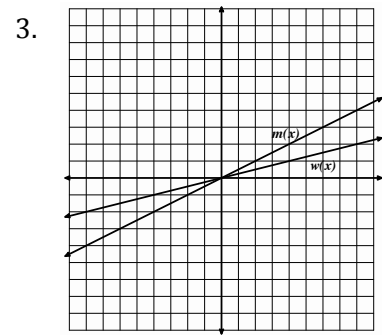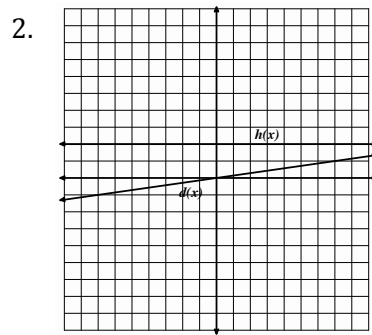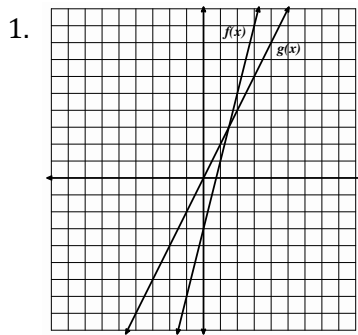
7a. Examine the graph at the left from 0 to 1.
      Which graph do you think is growing faster?

  b. Now look at the graph from 2 to 3.
      Which graph is growing faster in this interval?

Set

Topic: Representations of linear and exponential functions.

In each of the following problems, you are given one of the representations of a function. Complete the remaining 3 representations. Identify the rate of change for the relation.
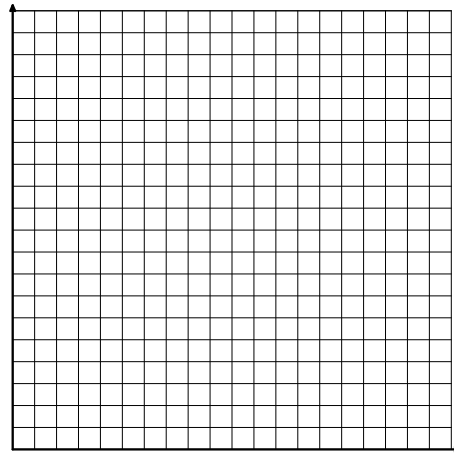
9. **Equation**:

Graph

Table

Rides	Cost

Create a context

You and your friends go to the state fair. It costs $5 to get into the fair and $3 each time you go on a ride.

10. **Equation**:

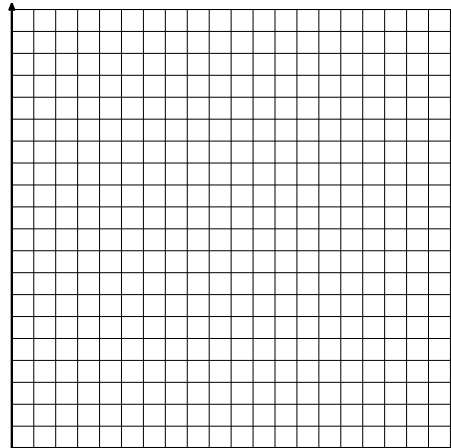**Graph**

Table

Time	Amount
1	18
2	53
3	162
4	486
5	1458
6	4374

Create a context

Go

Topic: Recursive and explicit equations of geometric sequences.

Write the recursive and explicit equations for each geometric sequence.

10. Marissa has saved $1000 in a jar. She plans to withdraw half of what's remaining in the jar at the end of each month.

11.

Time (Days)	Number of Bacteria
1	10
2	100
3	1000
4	10000

12.

Folds in paper	Number of rectangles
0	1
1	2
2	4
3	8

13. $1024, 256, 64, 16, \ldots$

14. $3, 9, 27, 81, \ldots$