Ready, Set, Go!

Ready

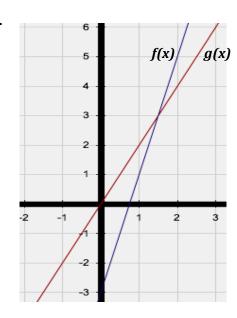
Topic: Recognizing the greater rate of change when comparing 2 linear functions or 2 exponential functions.



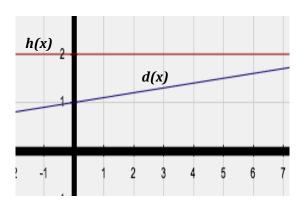
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Which graph is growing faster?

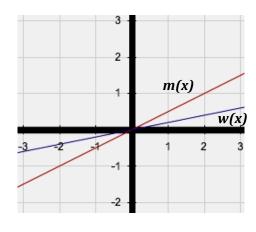
1.



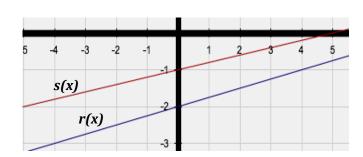
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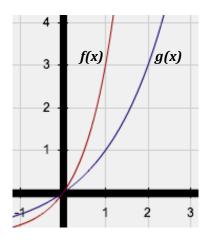
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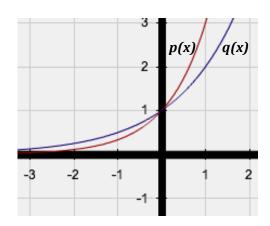
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5.

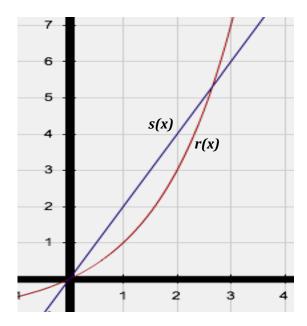


6.



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

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.

Directions: 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. 8.

Context	<u>Table</u>
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.	
Graph	Equation

9.

Context	<u>Table</u>	
	Be sure to	include your units
	Time	Amount
	1	18
	2	54
	3	162
	4	486
	5	1458
	6	4374
<u>Graph</u>	Equation	<u> </u>

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 Number of bacteria

1 10

2 100

3 1000

4 10000

12. Folds in paper rectangles

0 1

1 2

2 4

3 8

- 13. 1024, 256, 64, 16, . . .
- 14. 3, 9, 27, 81, . . .

Need Help? Check out these related videos:

http://www.khanacademy.org/math/algebra/ck12-algebra-1/v/identifying-exponential-models

 $\frac{http://www.khanacademy.org/math/algebra/ck12-algebra-1/v/linear--quadratic--and-exponential-models}{(2.2)}$