

Name:

Linear and Exponential Functions | 4.2

Ready, Set, Go!



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Ready

Topic: Rates of change in linear models

Say which situation has the greatest rate of change

1. The amount of stretch in a short bungee cord stretches 6 inches when stretched by a 3 pound weight. A slinky stretches 3 feet when stretched by a 1 pound weight.
2. A sunflower that grows 2 inches every day or an amaryllis that grows 18 inches in one week.
3. Pumping 25 gallons of gas into a truck in 3 minutes or filling a bathtub with 40 gallons of water in 5 minutes.
4. Riding a bike 10 miles in 1 hour or jogging 3 miles in 24 minutes.

Set

Topic: linear rates of change

Determine the rate of change in each table below.

5.

x	y
-3	-13
-1	-5
0	-1
3	11

6.

x	y
-4	-4
0	4
2	8
6	16

7.

x	y
-10	-14
5	-8
25	0
50	10

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Name: _____

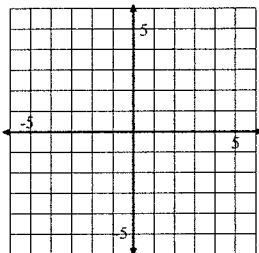
Linear and Exponential Functions | 4.2

Go

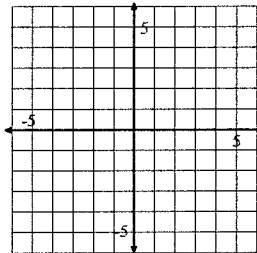
Topic: Graphing linear equations in slope-intercept form.

Graph the following equations

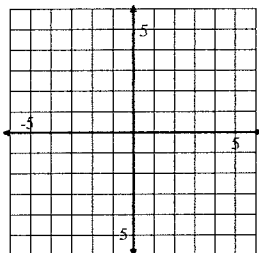
8. $y = 3x - 1$



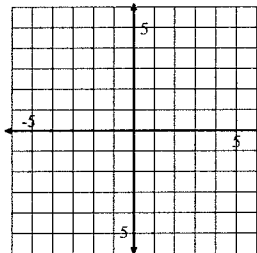
9. $y = -5x + 4$



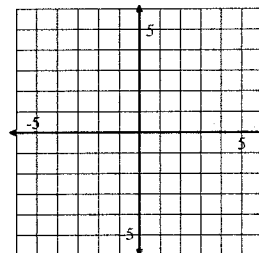
10. $y = x$



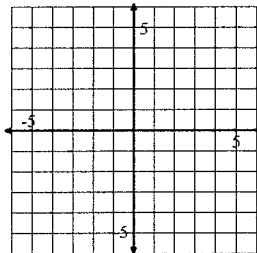
11. $y = -4$



12. $y = \frac{1}{2}x - 6$



13. $x = 3$



Need Help? Check out these related videos:

<http://www.algebra-class.com/rate-of-change.html><http://www.khanacademy.org/math/algebra/linear-equations-and-inequalities/v/graphs-using-slope-intercept-form>

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