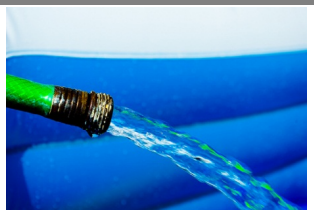
Ready, Set, Go!

Ready

Topic: Graphing linear and exponential functions



Graph each of the functions.

1. $f(x) = -2x + 5$

2. $g(x) = 4 - 3x$

3. $h(x) = 5(3^x)$

4. $k(x) = 4(2^x)$

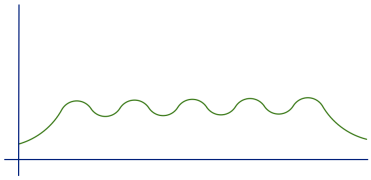
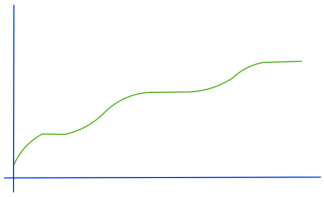
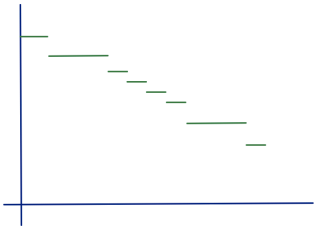
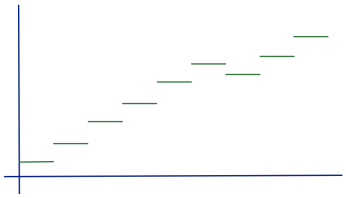
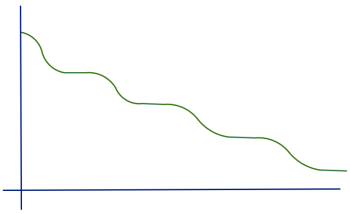
5. $v(t) = 2.5t - 4$

6. $f(x) = 8(3^x)$

Set

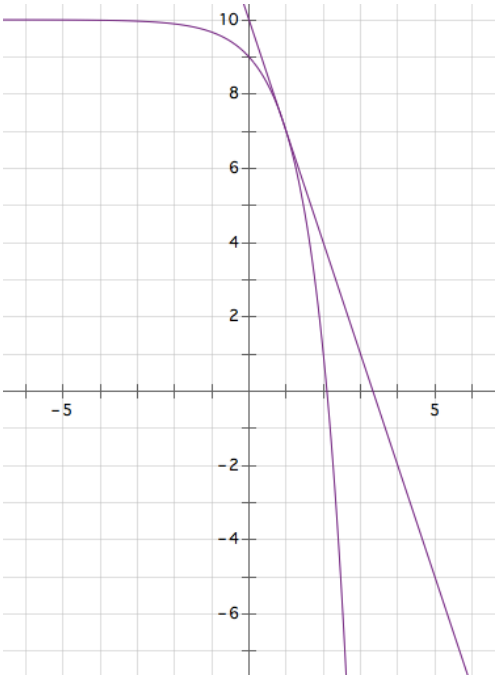
Topic: Describing attributes of a function based on the graphical representation.

7. For each graph given **match** it to the contextual description that fits best. Then **label** the independent and dependent axis with the proper variables.

Graphs	Contextual Descriptions
A. 	i. The amount of money in a savings account where regular deposits and some withdrawals are made.
B. 	ii. The temperature of the oven on a day that mom bakes several batches of cookies.
C. 	iii. The amount of gasoline on hand at the gas station before a tanker truck delivers more.
D. 	iv. The number of watermelons available for sale at the farmer's market on Thursday.
E. 	v. The amount of mileage recorded on the odometer of a delivery truck over a time period.

8. Given the pair of graphs on each coordinate grid, create a list of similarities the two graphs share and a list of differences. (Consider attributes like, continuous, discrete, increasing, decreasing, linear, exponential, restrictions on domain or range, etc.)

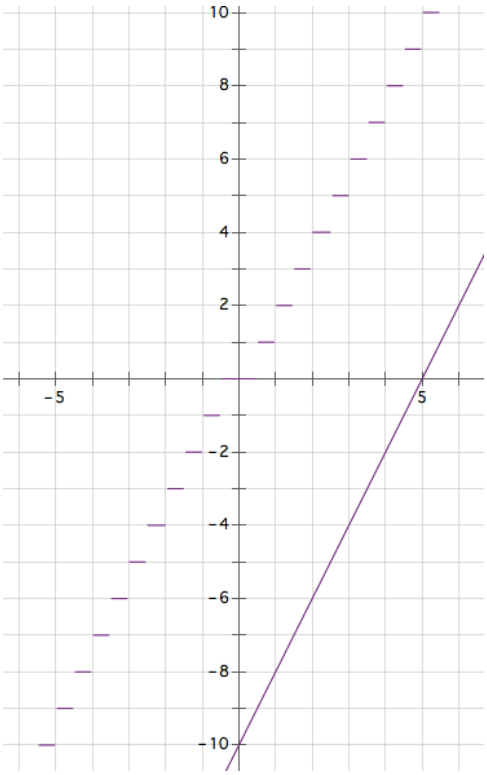
a.



Similarities:

Differences:

b.



Similarities:

Differences:

Go

Topic: Solving Equations

Find the value of *x* in each equation.

9. $10^x = 100{,}000$

10. $3x + 7 = 5x - 21$

11. $-6x - 15 = 4x + 35$

12. $5x - 8 = 37$

13. $3^x = 81$

14. $3x - 12 = -4x + 23$

15. $10 = 2^x - 22$

16. $243 = 8x + 3$

17. $5^x - 7 = 218$