

Name:

Ready, Set, Go!



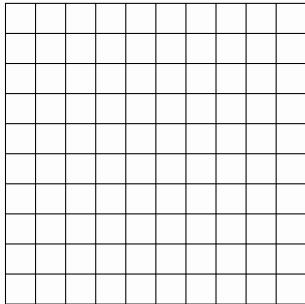
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**Ready**

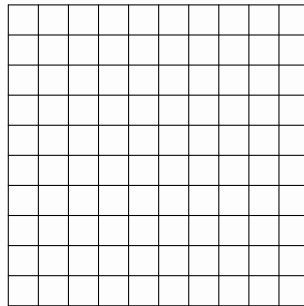
Topic: Graphing linear and exponential functions

**Graph each of the functions.**

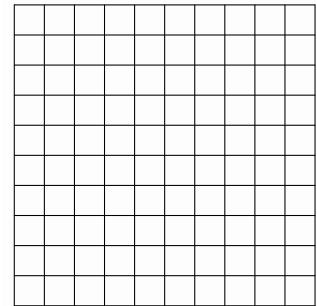
1.  $f(x) = -2x + 5$



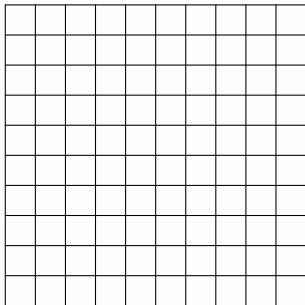
2.  $g(x) = 4 - 3x$



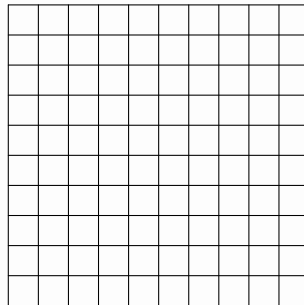
3.  $h(x) = 5(3)^x$



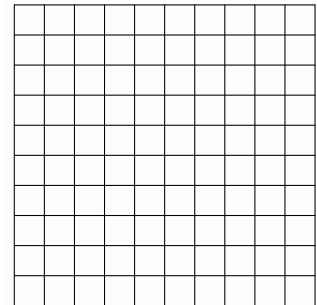
4.  $k(x) = 4(2)^x$



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



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



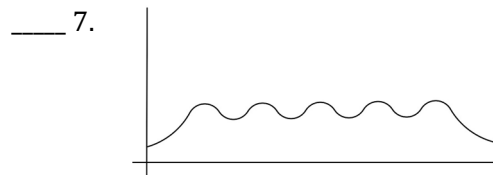
## Set

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

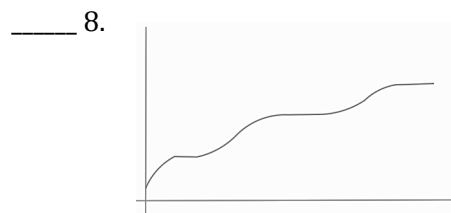
For each graph given match it to the contextual description that fits best. Then label the independent and dependent axis with the proper variables.

## Graphs

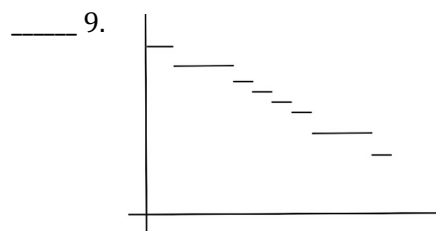
## Contextual Descriptions



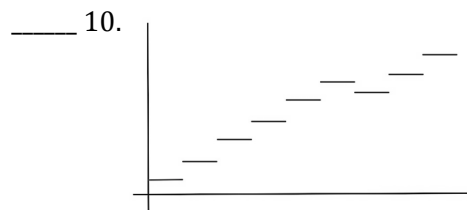
a. The amount of money in a savings account where regular deposits and some withdrawals are made.



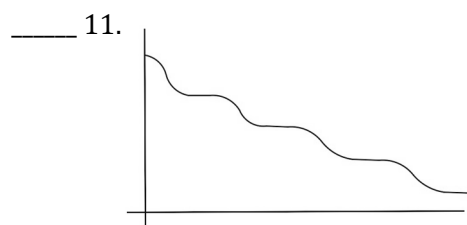
b. The temperature of the oven on a day that mom bakes several batches of cookies.



c. The amount of gasoline on hand at the gas station before a tanker truck delivers more.



d. The number of watermelons available for sale at the farmer's market on Thursday.

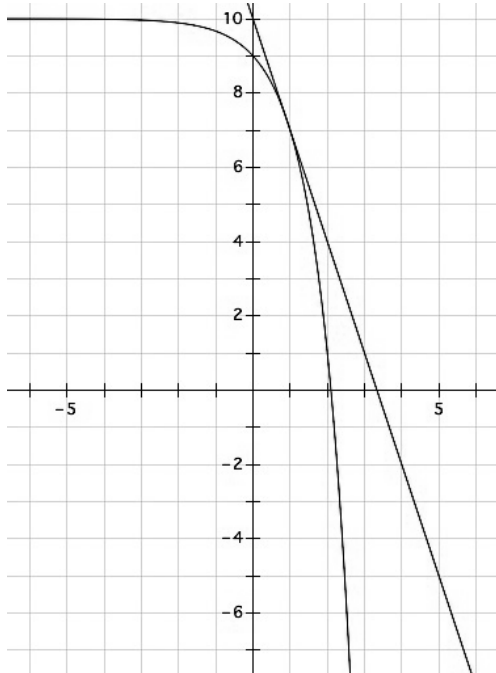


e. The amount of mileage recorded on the odometer of a delivery truck over a time period.



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.)

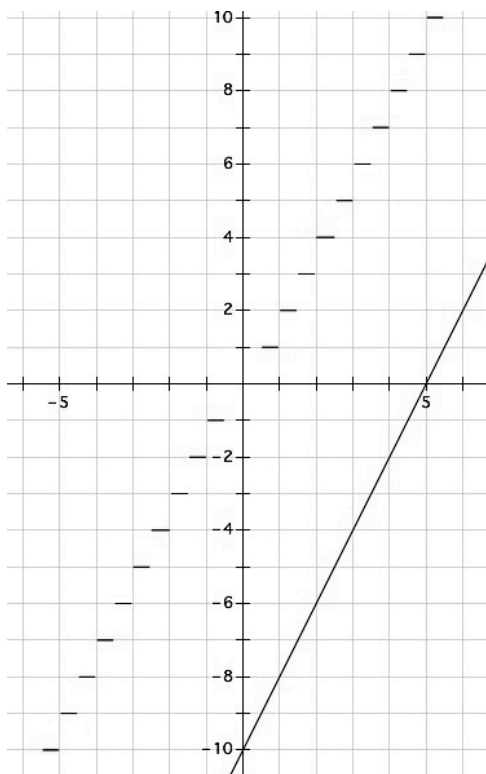
12.



Similarities:

Differences:

13.



Similarities:

Differences:



Name:

**Go**

Topic: Solving Equations

**Find the value of  $x$  in each equation.**

14.  $10^x = 100,000$

15.  $3x + 7 = 5x - 21$

16.  $-6x - 15 = 4x + 35$

17.  $5x - 8 = 37$

18.  $3^x = 81$

19.  $3x - 12 = -4x + 23$

20.  $10 = 2^x - 22$

21.  $243 = 8x + 3$

22.  $5^x - 7 = 118$

