SECONDARY MATH I // MODULE 3 FEATURES OF FUNCTIONS - 3.1



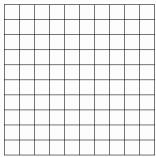
READY

Topic: Graphing Linear and Exponential Functions

Graph each of the functions. Name 3 points that lie on each graph. Choose a scale for your graph that will make it possible to graph your 3 chosen points.

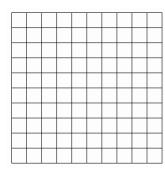
2. g(x) = 4 - 3x

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

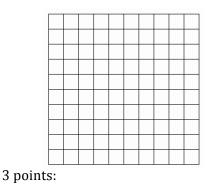


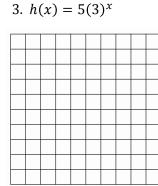
3 points:

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



3 points:

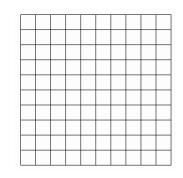




3.1



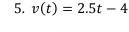
6. $f(x) = 8(3)^x$

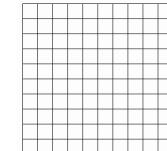


3 points:

3 points:







- P

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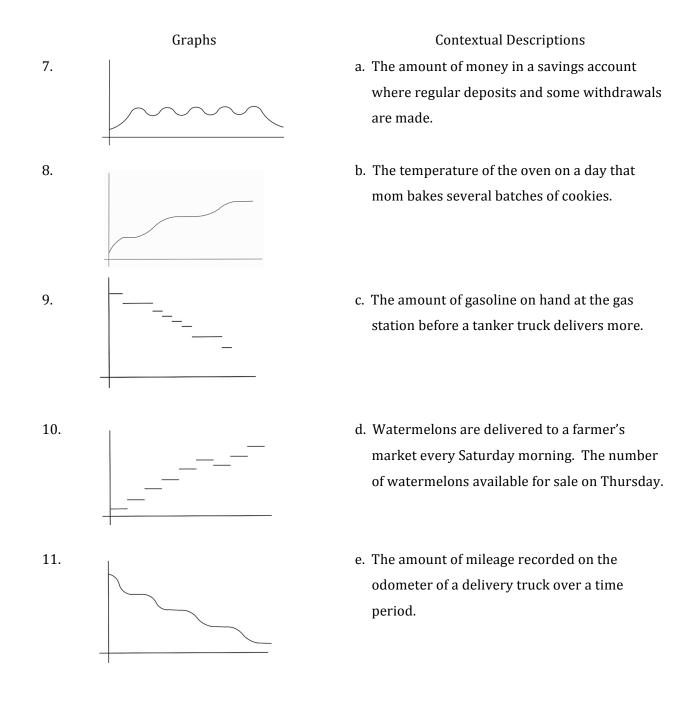
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SET

Topic: Describing attributes of a functions based on graphical representation

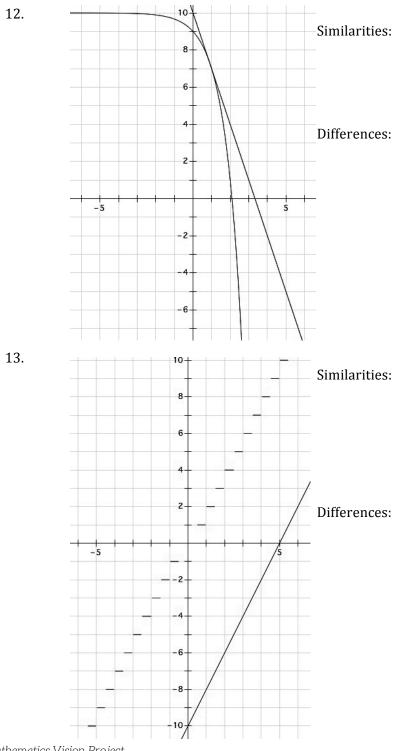
For each graph given match_it to the contextual description that fits best. Then label the independent and dependent axis with the proper variables.



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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.)



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GO

Topic: Solving equations

14. $10^x = 100,000$

For each equation find the value of x that makes it true. (Hint for #20 and #22: when solving a linear equation, you need to get the term containing the variable alone on one side. When solving an exponential equation, you also need to get the term containing the variable alone on one side.)

15. 3x + 7 = 5x - 2116. -6x - 15 = 4x + 35

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17. $5x - 8 = 37$	18. $3^x = 81$	19.3x - 12 = -4x + 23

20. $10 = 2^{x} - 22$ 21. 243 = 8x + 3 22. $5^{x} - 7 = 118$

