Ready, Set, Go!



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Ready

Topic: Exponents, Substitution, and Function Notation

Find each value.

- 1. 3¹
- 2.3^{2}
- $3. 3^3$

 4.3^{4}

For each of the following, find f(1), f(2) and f(3)

5.
$$f(x) = 2^x$$

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

7.
$$f(x) = 2(x-1) + 3$$

Complete each table.

8.	Term	1st	2nd	3rd	4th	5th	6th	7th	8th
	Value	2	4	8	16	32			

9.	Term	1st	2nd	3rd	4th	5th	6th	7th	8th
	Value	66	50	34	18				

10				,					
10.	Term	1st	2nd	3rd	4th	5th	6th	7th	8th
	Value	-3	9	-27	81				

11	,		,	,					
11.	Term	1st	2nd	3rd	4th	5th	6th	7th	8th
	Value	160	80	40	20				

12									
14.	Term	1st	2nd	3rd	4th	5th	6th	7th	8th
	Value	-9	-2	5	12				

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Set

Topic: Completing a table

Fill in the table. Then write a sentence explaining how you figured out the values to put in each cell. Explain how to figure out what will be in cell #8.

13. You run a business making birdhouses. You spend \$600 to start your business, and it costs you \$5.00 to make each birdhouse.

# of birdhouses	1	2	3	4	5	6	7
Total cost to build							

Explanation:

14. You borrow \$500 from a relative, and you agree to pay back the debt at a rate of \$15 per month.

# of months	1	2	3	4	5	6	7
Amount of money owed							

Explanation:

15. You earn \$10 per week.

# of weeks	1	2	3	4	5	6	7
Amount of money earned							

Explanation:

16. You are saving for a bike and can save \$10 per week. You have \$25 already saved.

# of weeks	1	2	3	4	5	6	7
Amount of money saved							

Explanation:

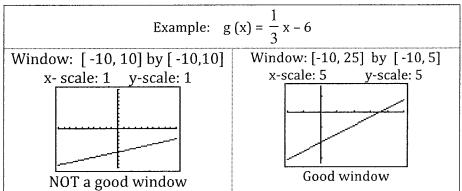
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Go

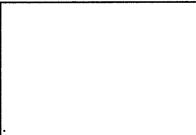
Topic: Good viewing window

When sketching a graph of a function, it is important that we see important points. For linear functions, we want a window that shows important information related to the story. Often, this means including both the x- and y- intercepts.



17.
$$f(x) = -\frac{1}{10}x + 1$$

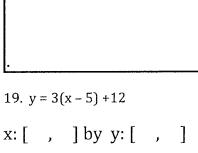
x-scale: y-scale:

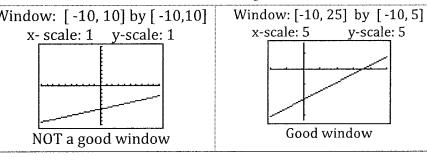


19.
$$y = 3(x - 5) + 12$$

x-scale:

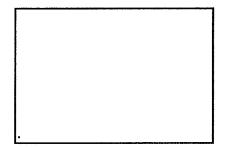
y-scale:





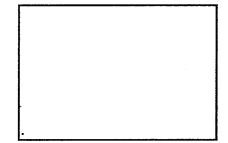
18.
$$7 x - 3 y = 14$$

x-scale: y-scale:



20.
$$f(x) = -15(x + 10) - 45$$

x-scale: y-scale:



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