

Ready, Set, Go!



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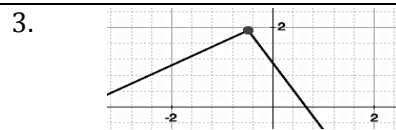
Ready

Topic: Recognizing functions

Identify which of the following representations are functions. If it is NOT a function state how you would fix it so it was.

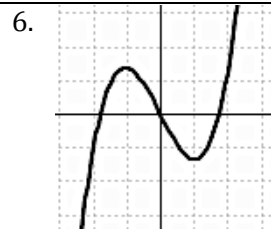
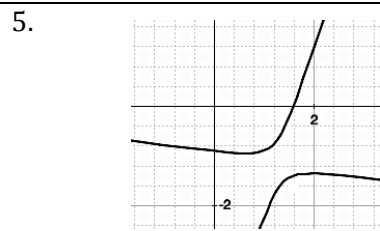
1. $D = \{(4,-1) (3, -6) (2, -1) (1, 2) (0, 4) (2, 5)\}$

2. The number of calories you have burned since midnight at any time during the day.



4.

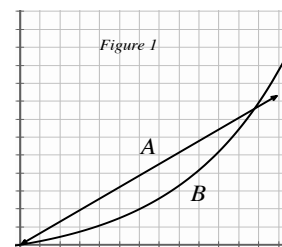
x	-12	-8	-6	-4
f(x)	25	25	25	25



Set

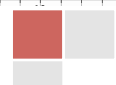
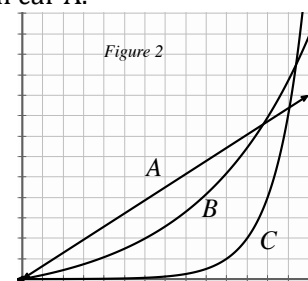
Topic: Comparing rates of change in linear, quadratic, and exponential functions

The graph at the right shows a time vs. distance graph of two cars traveling in the same direction along the freeway.



7. Which car has the cruise control on? How do you know?
8. Which car is accelerating? How do you know?
9. Identify the interval in *figure 1* where car A seems to be going faster than car B.
10. Identify the interval in *figure 1* where car B seems to be going faster than car A.
11. What in the graph indicates the speed of the cars?

12. A third car *C* is now shown in the graph (see *figure 2*). All 3 cars have the same destination. If the destination is a distance of 12 units from the origin, which car do you predict will arrive first? Justify your answer.

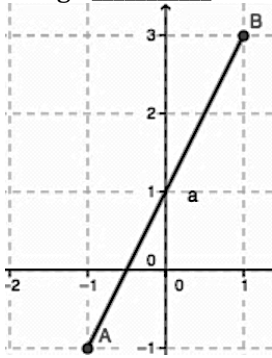


Go

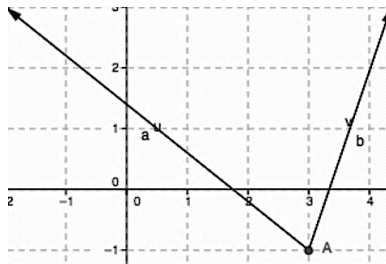
Topic: Identifying domain and range from a graph.

State the domain and range of each graph. Use interval notation where appropriate.

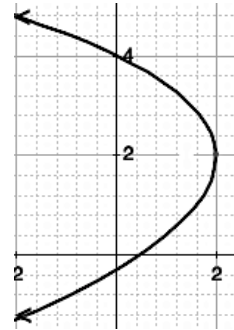
13a. Domain _____
b. Range _____



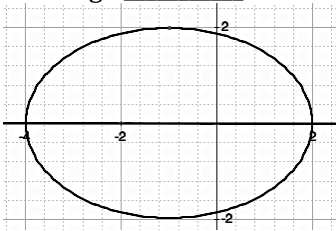
14a. Domain _____
b. Range _____



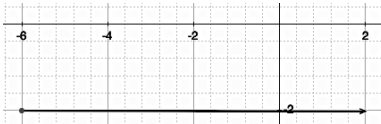
15a. Domain _____
b. Range _____



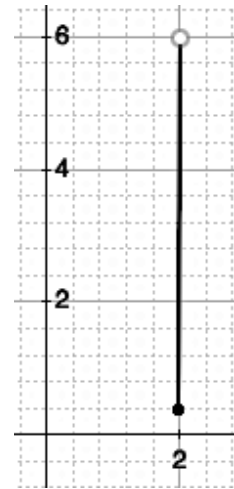
16a. Domain _____
b. Range _____



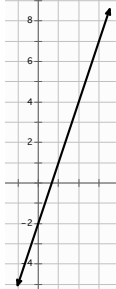
17a. Domain _____
b. Range _____



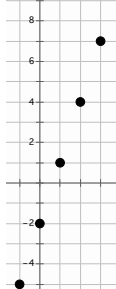
18a. Domain _____
b. Range _____



19a. Domain _____
b. Range _____



20a. Domain _____
b. Range _____



21. Are the domains of #19 and #20 the same? Explain.

