

READY, SET, GO!

Name _____

Period _____

Date _____

READY

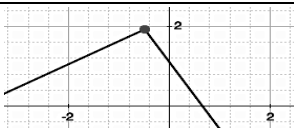
Topic: Recognizing Functions

Identify which of the following representations are functions. If the representation 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.

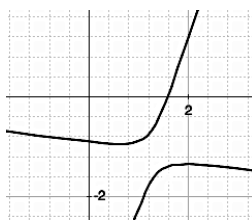
3.



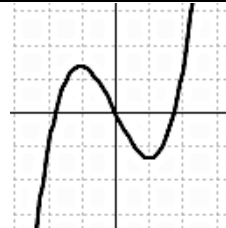
4.

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

5.



6.

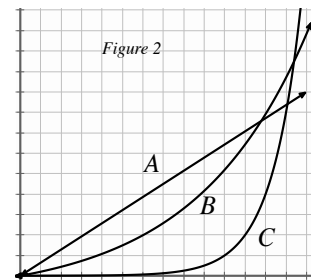
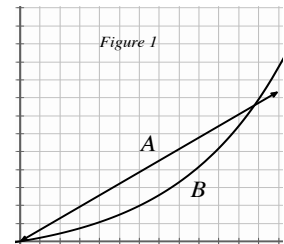


SET

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.

- Which car has the cruise control on? How do you know?
- Which car is accelerating? How do you know?
- Identify the interval in *figure 1* where car A seems to be going faster than car B.
- For what interval in *figure 1* does car B seem to be going faster than car A?
- What in the graph indicates the speed of the cars?
- 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.

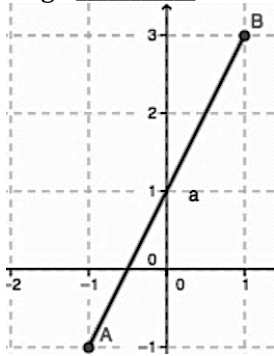


GO

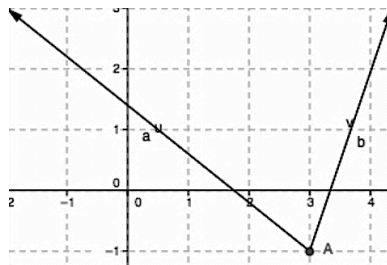
Topic: Identifying domain and range from a graph

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

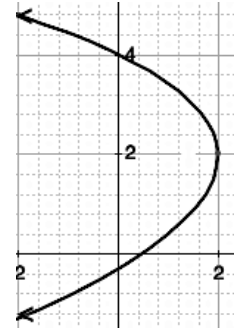
13a. Domain _____
 b. Range _____



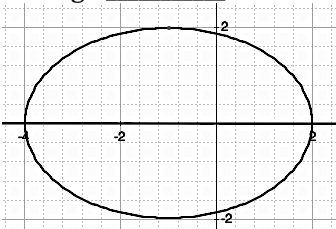
14a. Domain _____
 b. Range _____



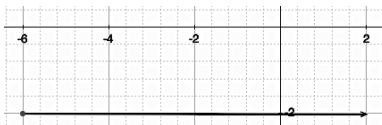
15a. Domain _____
 b. Range _____



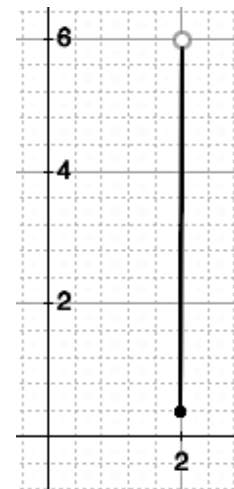
16a. Domain _____
 b. Range _____



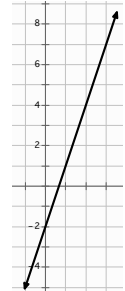
17a. Domain _____
 b. Range _____



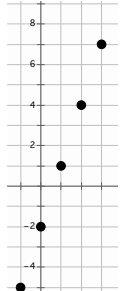
18a. Domain _____
 b. Range _____



19a. Domain _____
 b. Range _____



20a. Domain _____
 b. Range _____



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