

READY, SET, GO!
Name \_\_\_\_\_
Period \_\_\_\_\_
Date \_\_\_\_\_

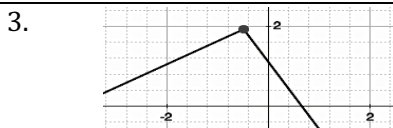
## READY

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.**

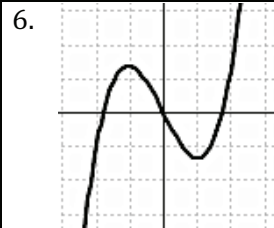
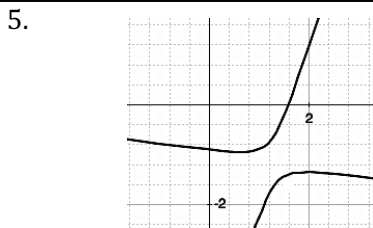
1.  $D = \{(4,-1) (3, -6) (2, -1) (1, 2) (0, 4) (2, 5)\}$

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



4. 

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

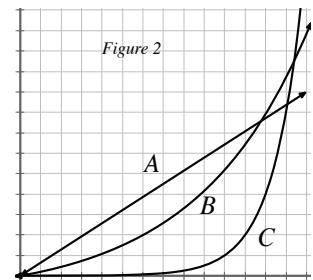
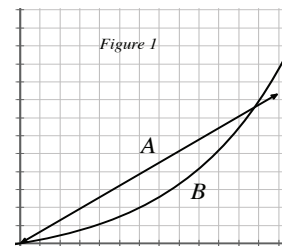


## SET

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. For what interval in *figure 1* does car B seem 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.

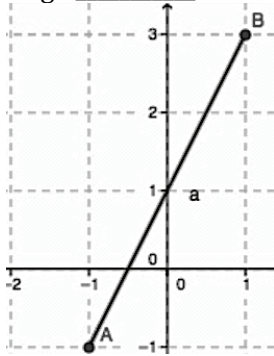


**GO**

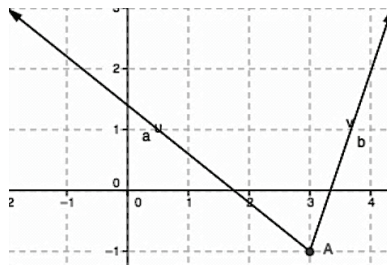
Topic: Identifying domain and range from a graph

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

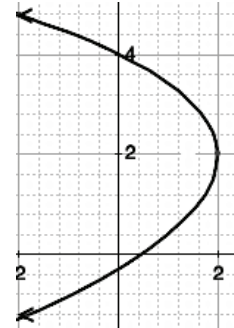
13a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



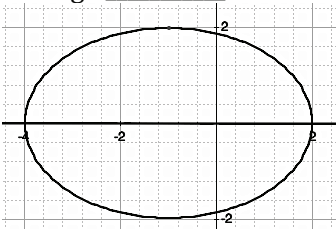
14a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



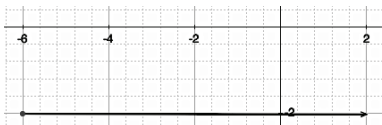
15a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



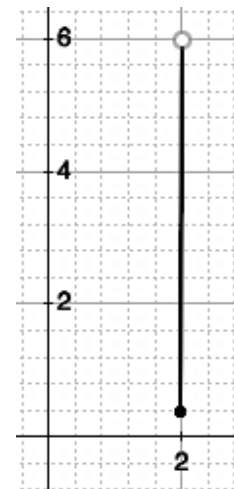
16a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



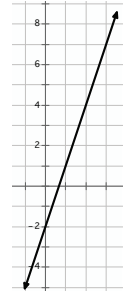
17a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



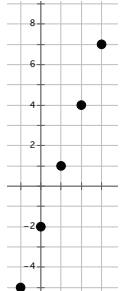
18a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



19a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



20a. Domain \_\_\_\_\_  
 b. Range \_\_\_\_\_



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