

Find each inverse. Is the inverse a function?

1. 

x	-2	-1	0	1	2
y	3	5	7	9	11

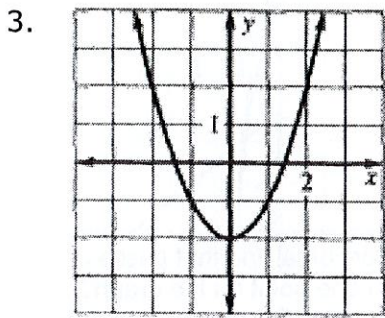
yes!

2. 

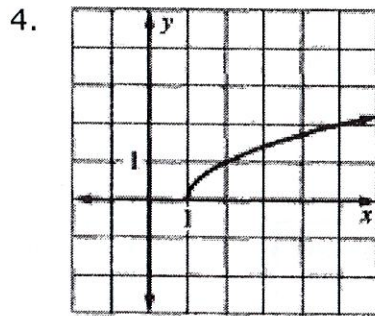
x	0	1	2	3	4
y	-1	-2	4	-2	-1

no!

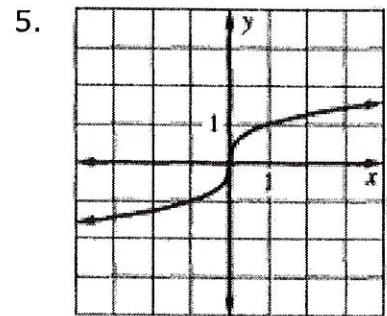
Use the horizontal line test to determine whether the inverse is a function.



no!

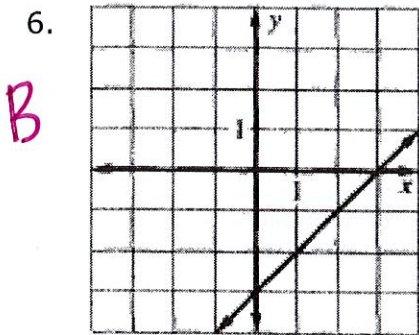


yes!

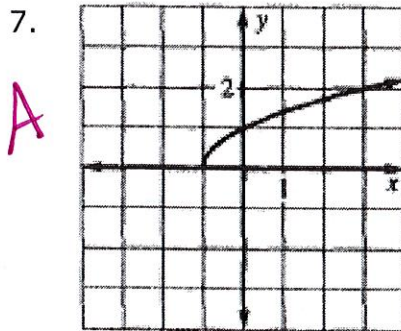


yes!

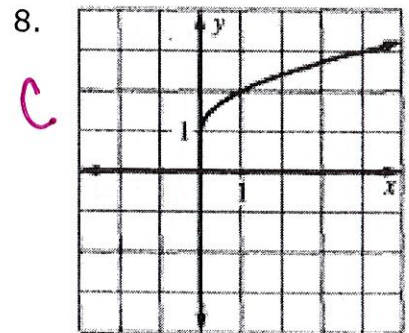
Match the graph with the graph of its inverse.



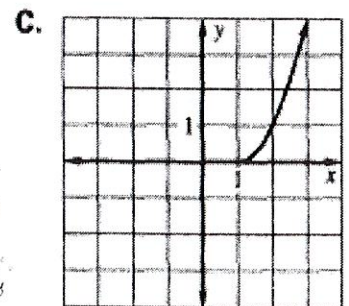
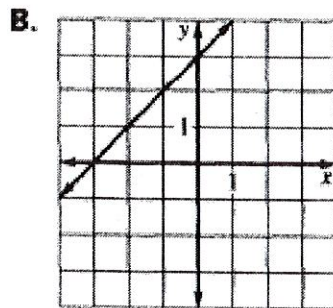
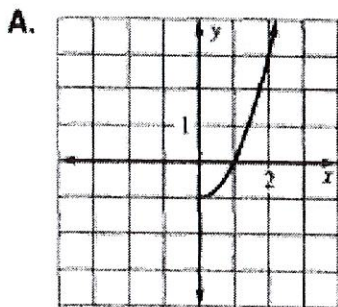
B



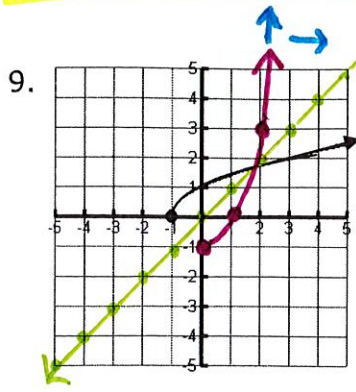
A



C

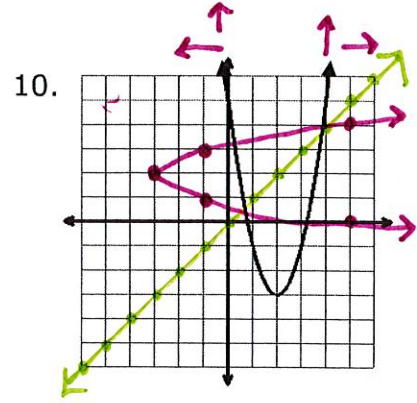


Identify several ordered pairs on the graphs of the following functions. Reverse the ordered pairs to graph each inverse of on the same set of axes. Then identify the domain and range of the function and of its inverse. Finally, determine if the inverse is a function.



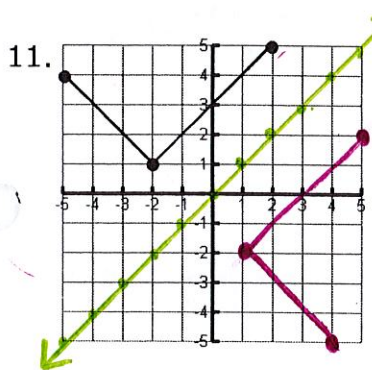
Function  
 D:  $[-1, \infty)$   
 R:  $[0, \infty)$   
 Inverse  
 D:  $[0, \infty)$   
 R:  $[-1, \infty)$

Is the inverse a function? yes



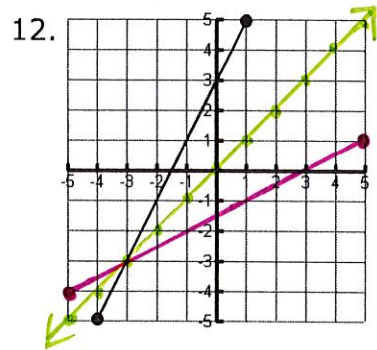
Function  
 D:  $(-\infty, \infty)$   
 R:  $[-3, \infty)$   
 Inverse  
 D:  $[-3, \infty)$   
 R:  $(-\infty, \infty)$

Is the inverse a function? no



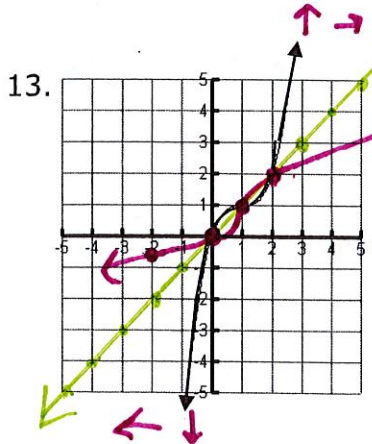
Function  
 D:  $[-5, 2]$   
 R:  $[1, 5]$   
 Inverse  
 D:  $[1, 5]$   
 R:  $[-5, 2]$

Is the inverse a function? no



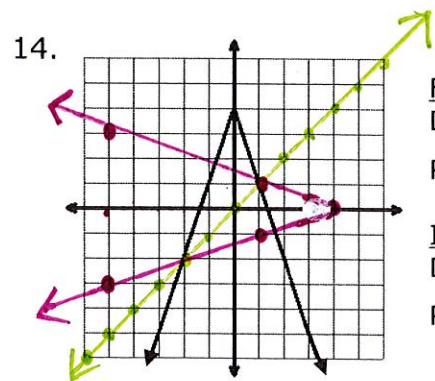
Function  
 D:  $[-4, 1]$   
 R:  $[-5, 5]$   
 Inverse  
 D:  $[-5, 5]$   
 R:  $[-4, 1]$

Is the inverse a function? yes



Function  
 D:  $(-\infty, \infty)$   
 R:  $(-\infty, \infty)$   
 Inverse  
 D:  $(-\infty, \infty)$   
 R:  $(-\infty, \infty)$

Is the inverse a function? yes



Function  
 D:  $(-\infty, \infty)$   
 R:  $(-\infty, 4]$   
 Inverse  
 D:  $(-\infty, 4]$   
 R:  $(-\infty, \infty)$

Is the inverse a function? no