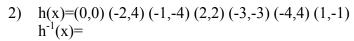
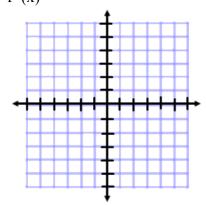
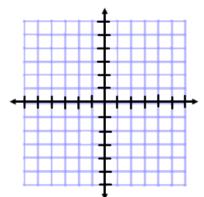
In each problem, find the inverse of the function then graph both the function and its inverse. It is a good idea to use different shapes to distinguish between the function and its inverse.

1) f(x)=(2,4)(-5,3)(-2,-3)(1,1)(-4,-4)(-1,-2)(3,-1) $f^{-1}(x)=$







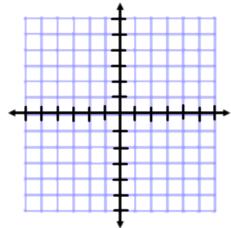
3) What do you notice about the function and its inverse?

Find the inverse of each function; then graph both the function and its inverse on your calculator.

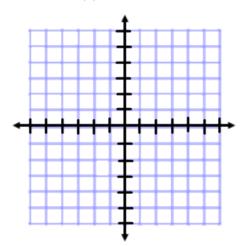
4) b(x) = 3x-2

5)
$$n(x)=x^3$$

$$b^{-1}(x) =$$

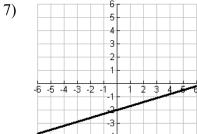


$$n^{-1}(x) =$$

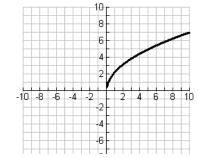


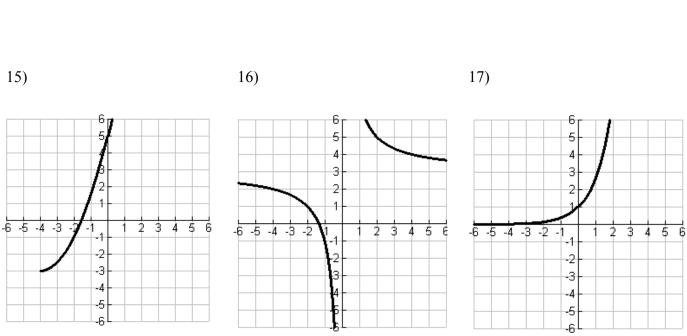
6) What do you notice about a graph and its inverse?

Draw the inverse of each graph



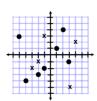
8)





Answers

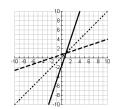
1) $f^{1}(x)=(4,2)(3,-5)(-3,-2)$ (1,1)(-4,-4)(-2,-1)(-1,3)



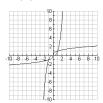
2) $h^{-1}(x)=(0,0)(4,-2)$ (-4,-1)(2,2)(-3,-3)(4,-4)(-1,1)



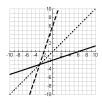
- 3) Reflection on line y = x4) $b^{-1}(x)=(x+2)/3$



5) $n^{-1}(x) = \sqrt[3]{x}$



- Reflection on line y = x
- 7)



8)

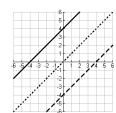


9)

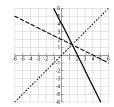


(Own inverse)

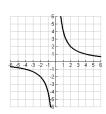
10)



11)

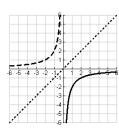


12)

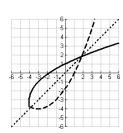


Own inverse

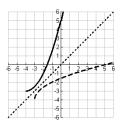
13)



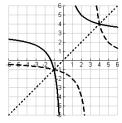
14)



15)



16)



17)

