Inverse Functions

	You already regularly use inverses in algebra and arithmetic. Recall		
	•		
,	•		
-	pairs are typically used to	and	·
	Finding the Inverse of a Relation		
,	To find the of a,		
	the of each		·
1	i.e., becomes		
•	ex. find the inverse of the:		
]	note: both the set and the inverse set are		[How do you know?]
•	ex. find the inverse of:		
	Inverse Function Notation:		
	Steps to Find the Inverse of a Function:		
	1		
	2		
	3		
	4.		

ex. Find the inverse of ______.

Follow up Question: find _____

ex. Find the inverse of ______.

When Function Contains a Fraction

Practice

Do: Find the inverse of ______.

Do: Find the inverse of ______.

Do: Find the inverse of ______.

Inverse Properties

Domain/Range

How to Show Functions are Inverses of Each Other

and are	if and only if:	
AND		
refer back to first example		
ex. Use composition to show	and	a
of each other.		

Write a conclusion statement:

Do: Use composition to show	and	are
of each other then write a conclusion statement .		

Conclusion:

Determine if Function Has an Inverse from Graph

_____its ______.

Recall Vertica	al Line Test (VLT)):		
A	is a	when EVERY	in domain	
	to			
Similarly, the	Horizontal Line	Test (HLT) states that a	has an	_ if
a		line can be drawn through any part of	the and pass	
through		·		
However,				
and	are referred t	to as		
Answer: A _	(can be made to	by	

Graphic Relationship Between Function and Inverse

