Algebra 2

5-07 Inverse of a Function

Properties of Inverses	
 <i>x</i> and <i>y</i> values are Graph is over the line _ 	
• You can use the Horizontal Line test to de	etermine if the of a function is also a function. Taph a function, then the inverse is a function.
Definition of inverses	
• Two functions are inverses if and only if _	and
Verify that $f(x) = 6 - 2x$ and $g(x) = \frac{6-x}{2}$ are inve	
Finding inverses	
 Finding inverses Inverses switch the <i>x</i> and <i>y</i>	
• Inverses switch the <i>x</i> and <i>y</i>	
 Inverses switch the x and y	or <i>y</i> .
Inverses switch the <i>x</i> and <i>y</i>	or <i>y</i> .
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 Inverses switch the <i>x</i> and <i>y</i> 1 <i>x</i> and <i>y</i> and for the inverse 	or <i>y</i> .

The power (in watts) of a lightbulb that has a resistance of 240 ohms is represented by $f(x) = 240x^2$, where x is the electric current of a lightbulb in amperes. Find and interpret $f^{-1}(60)$.