Last day we learned that

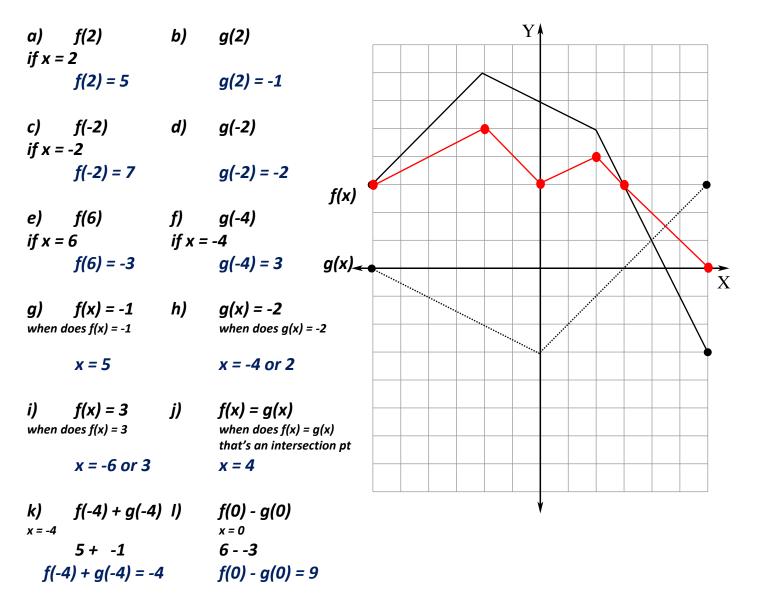
f(2) means what is y when x = 2

and f(x) = 2 means for what x does y = 2

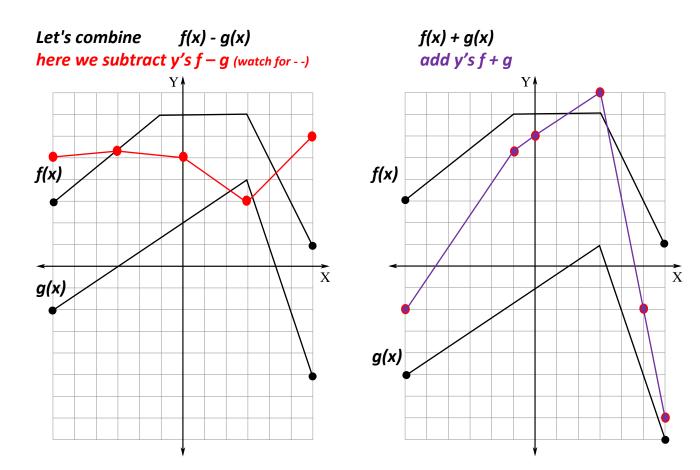
Now we look at this in terms of a graph But instead of 'plugging in x' or solving for x

we will go to the graph called f(x) and find the requested value

1) The graph of f(x) and g(x) are shown on the axis below - use the graph to determine the value(s) of the following statements



(k and l) above imply we could create a new graph - let's create y = f(x) + g(x)We do this by adding the y-values together for each x (ex. Far right pt. 3 + -3 = 0)



A graph is only considered a function if

For every x value you produce a single y value - which is a fancy way of saying

 function
 Not a function

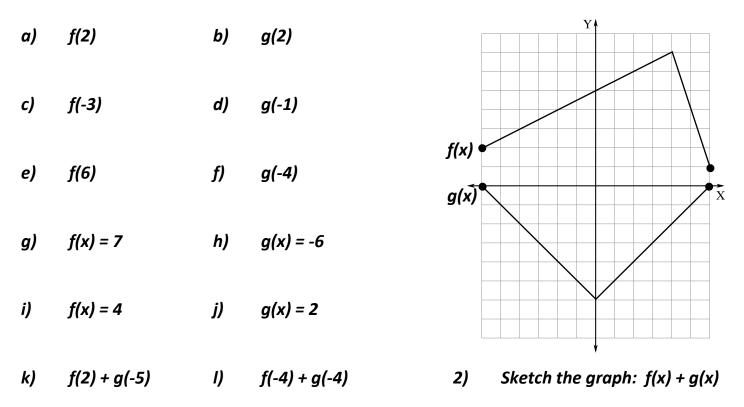
  $\bigwedge$   $\bigwedge$ 
 $\bigwedge$   $\bigwedge$ 
 $\bigwedge$   $\checkmark$ 
 $\checkmark$   $\checkmark$  

 Assignment = worksheet  $\bigvee$ 

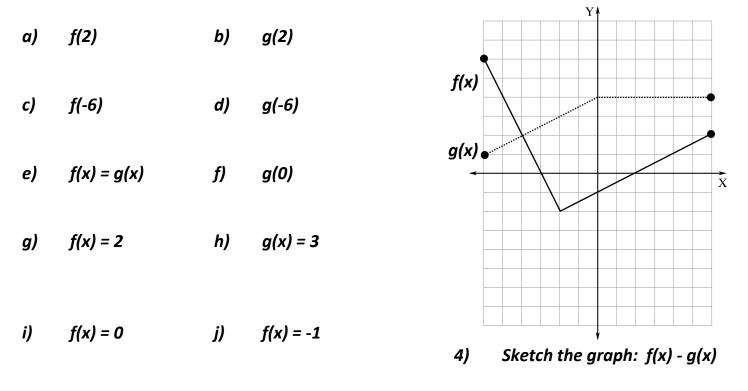
The graph can't cross back on itself

## Graphs and f(x)

1) The graph of f(x) and g(x) are shown on the axis below - use the graph to determine the value(s) of the following statements



3) The graph of f(x) and g(x) are shown on the axis below - use the graph to determine the value(s) of the following statements



5) The graph of f(x) and g(x) are shown on the axis below - use the graph to determine the value(s) of the following statements

