Composing/Decomposing Functions

Composite Function := a function	another
given functions:,	
composed functions can be denoted as:	
*	
•	
•	
Components of a composite function:	
example:	
given and	
find $(f \circ g)(x)$	
notice what happens when	:

A function can also be _____:

Try ______ on your own for extra practice.

Solution: $x^4 - 4x^3 + 14x^2 - 20x + 30$

Evaluating Composed Functions

ex. using same functions as above, find _____

Method #1 Method #2

Composing Functions Containing Fractions

ex. given ______, _____

now find _____

Resulting Domains

Do: given,,	
find	
what is the resulting domain?	
Decomposing Functions	
-	identifying the and functions of a
	and functions of a
function.	
For the following examples, assume	·
ex. Identify the inner and outer functions	given
ex. decompose	
Do: decompose	Do: decompose
tip: pick function such that	function is one of the functions