# Pathways Reading Guide M3 Section 4

Please read Module 3, section 4 in your e-book, pp. 25– 35.  (Click on Module 3, then "text.")

Be sure to *read with a pencil in hand* and attempt the examples before you read the solution given. Take notes of important definitions and ideas as you read.  I don't expect you to have 100% comprehension of everything in the section, but spending significant time trying to understand the main ideas will assist you as you work on the Investigation during our next class.

The main idea in this section is that of composition of two functions. You might think of this new operation as performing a function process on the output of another function.

## Questions to answer as you read:

What do we mean by composing two functions?  Explain in your own words.  Be able to also explain to a friend *why* we'd want to compose two functions.   How is this different than addition of functions? What is the *input* to the outside function?

What notation do we use for composition of functions?

The video on p. 30 describes one example of composition.  The explanation is clear – you might find it helpful.  Be sure to answer the question, *why* do we need this operation?

Example 17 is a "need to know" problem.  You will see this one again!

Example 18 is a good skill and drill example.

How can we use a table or a graph to find the composition of two functions?