Section 3.5 Composite Functions

Objective 4: Forming and Evaluating Composite Functions

Definition: Given functions f and g, the **composite function**, $f \circ g$ (also called the **composition of** f and g) is defined by $(f \circ g)(x) = f(g(x))$ provided g(x) is in the domain of f.

The composition of f and g does not equal the product of f and g: $(f \circ g)(x) \neq fg(x)$.

Also, the composition of f and g does not necessarily equal the composition of g and f though this equality does exist for certain pairs of functions.