**Function Operations /20**

 **1.** Given that  and , write an explicit equation for .

 **2.** Given  and , write an explicit equation for .

 **3.** Given , , and , write an explicit equation for , then state its domain.

 **4.** Given  and , write an explicit equation for , then determine its domain.

 **5.** Given the functions  and , determine each value below.

a) 

b) 

 **6.** Given the graphs of  and , determine each value below.

a) 

b) 

 **7.** Given  and , determine an explicit equation for each composite function below.

a) 

b) 

 **8.** Given the functions  and , determine an explicit equation for , then state its domain.

 **9.** Given  and , for each composite function:

• sketch a graph of the function

• state its domain and range

a)  b) 

 