**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) 

 