Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

De Moivre’s Theorem

1. Suppose . What is ?

2. Suppose . What is ? Write your answer in polar form and in *a + bi* form.

3. Evaluate each of the following.

a)  b) 

c)  d) 

e)  f) 