## Adding and Subtracting Complex Numbers

1. 
$$(3-4i)+(5+2i)$$

**2.** 
$$(3+4i)-(5-2i)$$

3. 
$$(2-7i)-(4+3i)$$

## **Multiplying Complex Numbers**

1. 
$$(3-4i) \times (5+2i)$$

**2.** 
$$(2+7i) \times (4-3i)$$

## Dividing Complex Numbers

1. 
$$\frac{5-2i}{3+4i}$$

2. 
$$\frac{4+3i}{2-6i}$$

## Polar Form

Find the polar form of the following complex numbers:

**1.** 1 + 1i

**2.** 0 - 2i

3. 3 + 4i

**4.** 3 - 2i

Find the a + bi form of the following complex numbers:

1.  $1 \angle \frac{\pi}{2}$ 

**2.**  $7 \angle \frac{5\pi}{3}$ 

**3.**  $5 \angle \frac{3\pi}{4}$ 

**4.** 3∠π

Exponentiation

1.  $(1-1i)^3$ 

**2.**  $(5+2i)^2$ 

3.  $(8-4i)^7$ 

**4.**  $(3+7i)^9$