

## Complex Numbers In Polar form Problem Test

Week 25: Turn in by Thursday by 10:00pm electronically: Write angles in degrees to two decimal places. (Calculators allowed)

### Problem 1

Evaluate these two complex numbers below using polar form:

$$(3 - 2i)^5 \text{ and } (-4 + 5i)^5$$

### Problem 2

Evaluate the product of these two complex numbers below using polar form:

$$3 - 2i \text{ and } -4 + 5i$$

### Problem 3

Evaluate the quotient below using polar form:

$$(3 - 2i) / (-4 + 5i)$$