

Math 143

Quiz 6

Due: 04/16/2007

Name: _____

1. Let $z_1 = -4 + 4i$ and $z_2 = -3 - 3i$

(a) (4 points) Convert z_1 and z_2 into trigonometric form.

(b) (4 points) Find $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$ using trigonometric forms. Be sure to express your answers in $a + bi$ form.

(c) (2 points) Use De Moivre's Theorem to compute $(z_1)^{1000}$