

Name: _____ Date: _____ Period: _____

Chapter 6 Review Day 2

Do Now

Given

$$z_1 = 6i^{25} + 3i^{34} + 5i^{40} - 4i^{17}$$

$$z_2 = 8i^9 + 2i^{26} - 7i^{13}$$

$$z_3 = 4\sqrt{2} \left(\cos \frac{7\pi}{4} + i \sin \frac{7\pi}{4} \right)$$

a) Simplify z_1 and z_2 . Write your answer in STANDARD FORM.

b) Find:

$$z_1 - z_2$$

$$z_1 \cdot z_2$$

$$\frac{z_1}{z_2}$$

$$|z_1|$$

Convert z_3 to standard form

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