Math Analysis Ch 9 Review

Row # ____
Name _____
Period ____

Directions:
Use lined paper to work problems.
Staple this ditto on the front ...

1. Graph $(-3, -\frac{3\pi}{2})$
2. Graph $(-2, \frac{7\pi}{6})$
3. Name two more points to name #1
4. Name two more points to name #2
5. Graph $r = -1.8$
6. Graph $r = 2 - \sin\theta$
7. In rectangular form, point A is $(-\sqrt{2}, \sqrt{2})$. Name this point in polar form.
8. In polar form, point B is $(4, -95^\circ)$. Name this point in rectangular form.
9. Write the equation, $x = 3$, in polar form.
10. Write the equation, $r = \sqrt{5}$, in rectangular form.
11. A) $2i^{19}$ B) $-3i^{42}$
12. $(\sqrt{6} + 3i) + (\sqrt{3} - 5i)$
13. $(3 - 7i)(2 + i)$
14. $\dfrac{4 - i}{5 + 2i}$
15. $(1 + i)$ is a complex number in rectangular form. Express it in polar form.
16. $2(\cos \frac{7\pi}{4} + i \sin \frac{7\pi}{4})$ is a complex number in polar form. Express it in rectangular form.
17. $a = 4/3\ (\cos \frac{5\pi}{4} + i \sin \frac{5\pi}{4})$
    $b = 3\ (\cos \frac{\pi}{4} + i \sin \frac{\pi}{4})$
    A) Find $\frac{b}{a}$
    B) Find $a \cdot b$
    C) Find $\sqrt[3]{-8i}$