

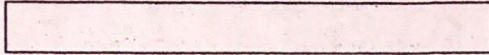
Name: _____

Unit 1:



Date: _____ Per: _____

Homework 5: Complex Numbers



Directions: Write each radical as a complex number.

1. $(7-2i)(6-i)+3(9-5i)$

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

3. $(5+3i)(9-8i)$

Directions: Evaluate.

4. i^{-2}

5. i^{59}

6. $4i^{15} \cdot 5i^6$

7. $(-3i^{16})^3$

8. $(2i)^7 \cdot (-5i^9)^2$

9. $(3-11i)^2$

Directions: Simplify.

10. $(5+7i)+(-13-4i)$

11. $(8+5i)-(6+4i)$

12. $(-7-i)-(-9+5i)$

13. $(-16-3i)+(-3-8i)$

14. $3i(-5+7i)$

15. $-i(8+2i)-4i(10-3i)$

16. $(5+i)(2-i)$

17. $(-1-4i)(11+6i)$

18. $(-7+2i)(-7-2i)$

19. $(2-3i)^2$