

Multiplying and Dividing Complex Numbers

Name: _____

Period: _____

Directions: Multiply each set of complex numbers. **Show all work.**

1. $3i(4 - 3i)$

2. $-2i(1 + 6i)$

3. $(5 - 3i)(2 - 4i)$

4. $(7 + 2i)(1 + 3i)$

5. $(6 - i)(2 + 3i)$

6. $(3 + 4i)(3 - 4i)$

7. $(3 + 2i)(4 - 5i)$

8. $(2 - 4i)(6 + 5i)$

Directions: Divide each set of complex numbers. **Show all work.**

9. $\frac{-16+12i}{4}$

10. $\frac{18-27i}{15}$

11. $\frac{6-i}{4-9i}$

12. $\frac{3+4i}{3-4i}$

13. $\frac{2-5i}{7+4i}$

14. $\frac{3+10i}{2-i}$