

Name _____ Date _____ Period _____

12.2 – Operations with Complex Numbers

Add or subtract the following complex numbers.

1. $(-5i) - i$

2. $(8i) + (2i)$

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

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

5. $(-7 - 2i) + (-3 - 8i)$

6. $(2 - 5i) - (-1 - 2i)$

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

8. $6 - (2 + 3i) + 6$

9. $(-7 - 4i) + (-7 - 7i)$

10. $(-3i) + (8i) + (2 + 6i)$

Multiply the following complex numbers.

11. $(-7i)^2$

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

13. $(-3i)(2i)(-4i)$

14. $(-2i)(-8 + 6i)$

15. $(7i)(-4i)$

16. $(-8 - 6i)(7 + 4i)$

17. $(7 - 4i)(-2 - 5i)$

18. $(8 - 5i)(-7 + 2i)$

19. $(-8 + 3i)(-3 + 8i)$

20. $(4i)(-2i)(5 - 2i)$