Secondary Math II Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sec Math II Domain 1 Standard A.APR.1 DaTe\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complex Numbers

Perform the following operations and simplify the solutions.

1. (-2+7i)+(-4-5i)
2. (8+6i)-(2+3i)
3. (3-5i)(4+6i)
4. (3+4i)(3-4i)
5. (15+3i)-(9-3i)
6. (1-4i)(2+i)
7. (-2+i)+(-1-i)
8. (1-4i)(2+i)
9. (1+2i)2
10. 
11. 
12. 
13. Under what circumstances does (a+bi)(c+di) result in the following:

A real number?

An Imaginary number?

A non-real complex number?