Write the expression in the form a + bi, where *a* and *b* are real numbers.

1. (7 – 6i) – (-11 – 3i) 2. (-2 + 6i)(8 – i) 3. (5 – 2i)2

4. (3 + 4i)(3 – 4i) 5. i43  6. i66

7. i92 8. 9.

10. (2 + 3i)3  11. (-3 + )(8 - ) 12. (2 - (3 -

**Find the values of x and y, where x and y are real numbers.**

13. 4 + (x + 2y)i = x + 2i 14. (x – y) + 3i = 7 + yi 15. (2x – y) – 16i = 10 + 4yi

**Find the solutions of the equation.**

16. x2 – 6x + 13 = 0 17. x2 + 4x + 13 = 0 18. x2 + 3x + 6 = 0