**LT #7: Complex Numbers**

Simplify the follow. (2 points each)

1. $ $ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.

 

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1. $i^{35}$ 2. $\left(3+2i\right)\left(4-3i\right)$

3. $\frac{2-i}{3+i}$ 4. $\left|-4+3i\right|$

Solve using the quadratic equation. (3 points)

5. $x^{2}+5x+10=0$

6. Graph the complex number 2+3i. (2 points)