Name:
Block: $\qquad$
518 Complex Number Graded Assignment

| 1. $i^{2013}$ | $1 . \square$ |
| :--- | :--- |
| 2. $\left(2 i^{2}\right)^{4}$ | 2. |
| 3. $\sqrt{-81}$ | 3. |
| 4. $(\sqrt{-3})(\sqrt{27})$ | 4. |
| $5.2 i\left(i^{3}+t^{5}-i\right)$ | 5. |


| $6 .(2+4 i)-(5+3 i)$ | 6. |
| :--- | :--- |

9. Solve for all solutions: $x^{2}+52=3$
10. $\qquad$
11. Solve for all solutions: $x^{2}-6 x=-10$
12. $\qquad$
13. Find the magnitude for $12-5 i$.
14. Find $\mid-3+5 i$
15. $\qquad$
16. a. Plot $\mathrm{M}=4+2 i$ and $\mathrm{H}=-5-3 i$.
b. Which has the greater magnitude and what is it?

