Algebra 2 Honors- Week 9 Homework

**Monday-** Catch up for the week and study for test tomorrow!



**Tuesday-** No homework! Test Day!

**Wednesday-**

**Number System Assignment**

1. Mark an X for each category that applies.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Number** | **Real** | **Rational** | **Irrational** | **Integer** | **Whole** | **Natural** |
| -6 |  |  |  |  |  |  |
| 62% |  |  |  |  |  |  |
| 0 |  |  |  |  |  |  |
| π/2 |  |  |  |  |  |  |
| 2.7 |  |  |  |  |  |  |
| 2/5 |  |  |  |  |  |  |
| √7 |  |  |  |  |  |  |
| √25 |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |
| ½ |  |  |  |  |  |  |

Give an example of a number that would satisfy these rules.

2. A number that is an integer but not whole. 3. A number that is whole but not natural.

4. A number that is real but not rational. 5. A number that is an integer but not rational.

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**Thursday-**



**Friday-**

**Simplify each of the following:**

1. ( 3 + 4i ) + ( 19 – 5i ) 2. ( 7 – 3i ) + ( 4 + 8i )

3. ( 6 – 5i ) + ( -9 + 3i ) 4. ( 8 - 10i ) – ( 1 + 6i )

5. ( 10 + 3i ) - ( -7 + 11i ) 6. ( 5 + 8i ) + ( 12 + 7i ) – (3 – 2i)

7. ( 4 + 2i )( 1 – 3i ) 8. ( 6 – 5i )( -4 + 6i )

9. ( 5i )( 1 + 3i ) 10. (4 – 5i)2