**Operations of Complex Numbers**

|  |  |
| --- | --- |
| i |  |
|  i2 |  |
|  i3 |  |
|  i4 |  |

Definition of i \_\_\_\_\_\_\_\_\_

How do we remember the pattern?

Complex Numbers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Example:

What can you do with complex numbers?

|  |  |  |  |
| --- | --- | --- | --- |
|  |  |  |  |

How do we divide complex numbers? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |
| --- | --- | --- |
| Add: (2 – 4i) + (4 + 3i) | Subtract: (–3 + i) – (– 8 + 2i) | Multiply: (3 – 2i)(5 + i) |
| Multiply: (2 + 3i)2 | Divide:   |  |