**Example:**

* **Addition: (34+23i) + (28+16i)**
* **Subtraction: (34+23i) – (28+16i)**
* **Multiplication: (34+23i) \* (28+16i)**
* **Division: (34+23i) / (28+16i)**

**Solution:**

**Addition:**

**34+23i**

**+ 28+16i**

**62+39i**

**Subtraction:**

**34+23i**

* **28+16i**

**06+07i**

**Multiplication:**

**=** (**34+23i) \* (28+16i)**

**= (34\*28) + (34\*16i) + (23i\*28) + (23i\*16i)**

**= (952) + (544i) + (644i) + (-368)**

**= 584 + 1188i**

**Division:**

**=** (**34+23i) / (28+16i)**

**= (**(**34+23i) \* (28-16i)) / ((28)2 + (16)2)**

**= { (34\*28) + (34\*(-16i)) + (23i\*28) + (23i\*(-16i)) } / { ((28)2 + (16)2) }**

**= { 952 – 544i + 644i + 368 } / { 784 + 256 }**

**= (1320+100i) / (1040)**

**(or)**

**= 1.2692 + 0.09615i**