# Adding and Subtracting Complex Numbers

To add complex numbers, add their real parts and imaginary parts

Real Part

$$(a + bi) + (c + di)$$

Imaginary Part

$$(a + c) + (bi + di)$$

To add complex numbers, add their real parts and imaginary parts

$$(4 + 3i) + (6 + 8i) \qquad (-4 - 5i) + (2 + 3i) \qquad (8 + i) + (-5 - i)$$

To subtract complex numbers, subtract their real parts and imaginary parts

Real Part

$$(a + bi) - (c + di)$$

Imaginary Part

$$(a - c) + (bi - di)$$

To subtract complex numbers, subtract their real parts and imaginary parts

$$(4 + 3i) - (6 + 8i)$$        $$(-4 - 5i) - (2 + 3i)$$        $$(8 + i) - (-5 - i)$$

To add complex numbers, add their real parts and imaginary parts

$$(a + bi) + (c + di)$$

$$(a + c) + (bi + di)$$

To subtract complex numbers, subtract their real parts and imaginary parts

$$(a + bi) - (c + di)$$

$$(a - c) + (bi - di)$$