Complex Numbers

To add (subtract) complex numbers, add (subtract) the real parts & add (subtract) the imaginary parts, combine like terms.

Examples:

$$(3+2i)+(4+7i) \rightarrow 3+2i+4+7i \rightarrow$$

$$3+4+2i+7i \rightarrow 7+9i$$

$$(6-4i)-(-2+8i) \xrightarrow{Distribute(-)} 6-4i+2-8i \rightarrow$$

$$6+2-4i-8i \rightarrow 8-12i$$

$$(-3-6i)+(6+6i) \rightarrow -3-6i+6+6i \rightarrow$$

$$-3+6-6i+6i \rightarrow 3+0i \rightarrow 3$$