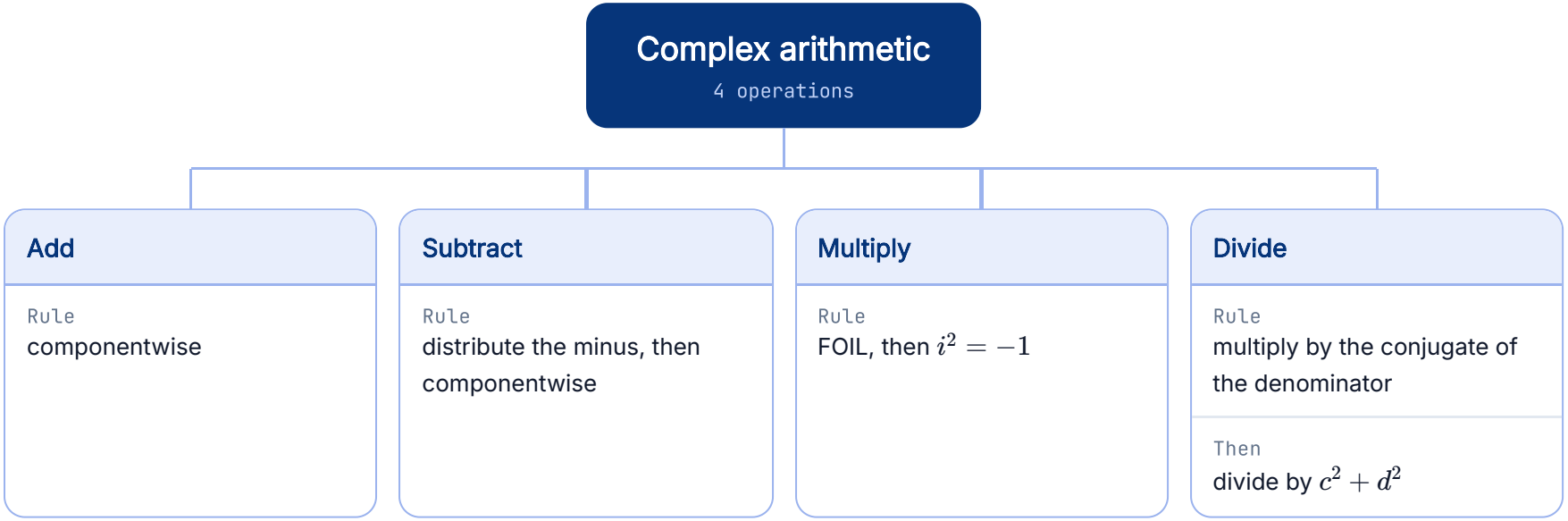
BEFORE YOU READ

Four operations on $a+bi$

Complex arithmetic follows the rules of real algebra with one extra fact: $i^2 = -1$. Division needs one more trick.



TAKEAWAY

Division is the only new idea

Adding, subtracting and multiplying are ordinary algebra; dividing clears i from the denominator with the conjugate.