Quiz 7: Gauß, Karatsuba, and Strassen Multiplication

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1. What is \((a + b \cdot j) \cdot (c + d \cdot j)\)?

2. In Karatsuba multiplication to compute \(x \cdot y\) where \(x = 1378\) and \(y = 9782\), what is \(x_{\text{high}}\)?

3. In matrix multiplication \(C = A \cdot B\), what is \(C_{1,2}\) in terms of \(A_{1,1}, A_{1,2}, A_{2,1}, A_{2,2}\) and \(B_{1,1}, B_{1,2}, B_{2,1}, B_{2,2}\)?