

Section 1: Introduction to matrices

Crucial points

1. **Check answers carefully**
It's easy to make careless mistakes in matrix arithmetic.
2. **Make sure that you can do matrix multiplication confidently**
This is fundamental to all work on matrices.
3. **Remember that matrix multiplication is not commutative**
In general, $\mathbf{AB} \neq \mathbf{BA}$. This is an easy mistake to make as we are all used to ordinary multiplication being commutative.