

## Recommended Reading (2 pages; 2/9/23)

### A Level extension

(1) "Euler - The Master of Us All" (William Dunham; publisher: The Mathematical Association of America)

- assumes only A Level knowledge
- includes a section on solving cubic and quartic equations

(2) "e: the story of a number" (Eli Maor; publisher: Princeton)

- can be read at the same time as studying A Level

(3) "Combinatorics - A very short introduction" (Robin Wilson; publisher: OUP)

- covers a wide range of interesting problems
- very little prior knowledge assumed

(4) "How to think like a mathematician" (Kevin Houston; publisher: CUP)

(5) "How to Make the World Add Up" (Tim Harford, publisher: The Bridge Street Press)

- How Statistics can be misleading

### University level

(6) Complex Analysis – An Introduction (Kevin Houston; publisher: "x to the power of n" [sic])

(7) "Div, Grad, Curl, and all that (an informal text on vector calculus)" (H.M. Schey; publisher: W.W. Norton)

- avoids non-essential mathematical rigour
- assumes knowledge of vector product, partial derivatives and multiple integrals

(8) "Dynamics and Relativity" (Stephen Siklos, CU Lecture Notes – Lent term 2011)

(9) "Mechanics" (Smith and Smith; publisher: John Wiley)

(10) "Classical Mechanics" (R.D. Gregory; publisher: CUP)