Stuck on a problem? **Applied Maths Edition**

Have you tried ...

$+0$	adding zero creatively
$\times 1$	multiplying by one creatively
$\sim$	scaling arguments
!	spotting a symmetry
$\circlearrowleft$	rotating the axes
(ξ, η)	changing coordinates
i	using complex variables
ε	perturbing about equilibrium
$d = 1$	studying the 1D case
®	reverse-engineering a solution
$x_i \mathbf{e}_i$	expanding in a basis
$\lim_x$	taking limits to 0 or ∞
$(\mathbf{k}, \omega)$	going to Fourier space
$\int$	converting a sum into an integral
Λ	cutting off the integral
∇	using a vector calculus identity
δ	using Dirac delta function properties
v	multiplying by an arbitrary test function
$\mathcal{D}$	integrating over an arbitrary test domain
$\leqslant$	finding upper or lower bounds
$+\ldots$	neglecting small terms
✓	looking for self-consistency or contradiction
c	identifying conserved or invariant quantities

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Stuck on a problem? **Fluid Mechanics Edition**

Have you tried ...

- balancing forces
- conserving mass, momentum and energy
- switching between Eulerian and Lagrangian coordinates
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Stuck on a problem? **Quantum Mechanics Edition**

Have you tried ...

σ_{ij} using Pauli matrices properties

$\{\}$ using a communtation relation

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