Stuck on a problem in *Applied Mathematics*?

Have you tried ...

$\sim$	scaling arguments
!	spotting a symmetry
$\circlearrowleft$	rotating the axes
$\mathbf{x} \to \boldsymbol{\xi}$	transforming the coordinates or variables
i	using complex variables
$\approx$	neglecting small terms
$\lesseqgtr$	finding upper or lower bounds
✓	looking for self-consistency or contradiction
ε	perturbing about equilibrium
$\mathcal{L}$	linearizing the problem
$d = 1$	studying the 1D case
$x_i \mathbf{e}_i$	expanding in a basis
$\lim_x$	taking limits to 0 or ∞
$(\mathbf{k}, \omega)$	going to Fourier space
$\sum$	converting an integral to a sum
$\int$	converting a sum to an integral
Λ	cutting off the integral
Δx	discretizing the problem
∇	using a vector calculus identity
δ	using a Dirac delta function property
C	identifying conserved or invariant quantities
$\star$	looking for self-similarity
$\frac{\mathrm{D}\mathbf{u}}{\mathrm{D}t}$	switching between Eulerian and Lagrangian coordinates
$\mathbf{F}$	considering physical quantities such as force, momentum or energy
v	multiplying by an arbitrary test function
Ω	integrating over an arbitrary test domain
®	reverse-engineering a solution
$+0$	adding zero creatively
$\times 1$	multiplying by one creatively

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