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function is a functional equation, $f(x) = f(?x)$, that is encountered as soon as the notion of a function is introduced. At the other ex-treme, in the forefront of research, during the last two to three decades, the celebrated Young-Baxter functional equation has been at the heart of many di?erent areas of math-

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- check that all objects satisfying the condition are of the form you describe
- and prove that anything of the form you describe satisfies the condition. In the context of this problem, this means you need to show that $f(x^2 y^2) = xf(x) yf(y)$ if and only if $f(x) = kx$:

Introduction to Functional Equations - Evan Chen

An Introduction to the Theory of Functional Equations and Inequalities Book Subtitle Cauchy's Equation and Jensen's Inequality Authors. Marek Kuczma; Editors. Attila Gilányi; Copyright 2009 Publisher Birkhäuser Basel Copyright Holder Birkhäuser Basel eBook ISBN 978-3-7643-8749-5 DOI 10.1007/978-3-7643-8749-5 Softcover ISBN 978-3-7643-8748-8 Edition Number 2

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of this book describes its contents adequately. Probably even the most devoted specialist would not have thought that about 300 pages can be written just about the Cauchy equation (and on some closely related equations and inequalities).

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one of the eigenfunctions of Equation 1, is the expectation value of H , that is; $\langle \psi | H | \psi \rangle = \int \psi^* H \psi dr$ Equation 4 The notation $\langle \psi | H | \psi \rangle$ emphasises the fact that the energy is a functional of the wavefunction. The energy is higher than that of the ground state unless ψ corresponds to ψ_0 – which is the variational theorem; $E[\psi] \geq E_0$ Equation 5

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