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xy f x 1 f y 1 1 again i made that up this equation is almost
symmetric except for a bump on the far left where f x f y is
asymmetric so if we take the equation with x and y flipped and then
eliminate the common terms we manage to obtain f x f y f y f x
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function b r such that b 0 0 and b 1 1 extend to q linear map f r r
then f b 0 0 with b 0 6 0 but f6 0 since f b 1 1 so fcannot be of the
form x7 cx but fsatis es the cauchy functional equation by linearity
variants got by using the group isomorphism r 0 1 1 de ned by exp and
log

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variables by using composition of functions

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functional equations Apr 19 2023 as a sum of one even and one odd function and this can be very handy in treating linear functional equations involving many functions treating numbers in a system with basis different than 10 of course this can be used only if the domain is n for the end let us emphasize that it is very important to guess the solution at the

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