

## Re: Can we find the function?

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- *From:* polymedes <[polymedes@xxxxxxxxxx](mailto:polymedes@xxxxxxxxxx)>
  - *Date:* Wed, 31 Oct 2007 13:36:12 -0000
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On Oct 31, 1:55 pm, David W. Cantrell <[DWCantrell@xxxxxxxxxx](mailto:DWCantrell@xxxxxxxxxx)> wrote:

polymedes <[polyme...@xxxxxxxxxx](mailto:polyme...@xxxxxxxxxx)> wrote:

$$\text{Let } (f \circ f)(x) = -2x + 3$$

Can we find the original function  $f$ ?

How about  $f(x) = \text{Sqrt}(-2) x + 1 - \text{Sqrt}(-2)$ ?

(Of course, I'm not saying that is the only such function.)

David

Can we answer this question instead: Is it possible for the composition of two non-polynomial functions, to be a polynomial function?

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