1. Even and odd functions

Find the even and odd parts

2/2 points (graded)
Every function $g(x)$ can be written as the sum of an even and an odd function

$$g(x) = g_{\text{even}}(x) + g_{\text{odd}}(x),$$

where $g_{\text{even}}(-x) = g_{\text{even}}(x)$ and $g_{\text{odd}}(-x) = -g_{\text{odd}}(x)$.

Find the even and odd parts of the function e^x.

Even part: (e^x+e^(-x))/2 ✔

$\frac{e^x+e^{-x}}{2}$

Odd part: (e^x-e^(-x))/2 ✔

$\frac{e^x - e^{-x}}{2}$

FORMULA INPUT HELP

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✔ Correct (2/2 points)

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HINT: Remembering Euler's Formula may be helpful! 2

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