

# IN-2023

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## QUESTION:44

A continuous real-valued signal  $x(t)$  has finite positive energy and  $x(t) = 0, \forall t < 0$ . From the list given below, select ALL the signals whose continuous-time Fourier transform is purely imaginary.

- 1)  $x(t) + x(-t)$
- 2)  $x(t) - x(-t)$
- 3)  $j(x(t) + x(-t))$
- 4)  $j(x(t) - x(-t))$

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