The purely real-valued time signal $x$ has the following characteristics in its Fourier transform. The Fourier transform of $x$ is **continuous**, purely **imaginary valued**, and **non-periodic**. Answer the following question about the time signal $x$.

A. Is $x$ a discrete-time signal, a continuous-time signal, or not enough information is provided?

**Since Fourier Transform of $x$ is non-periodic, then $x$ is continuous.**

B. Is $x$ periodic, non-periodic, or not enough information is provided?

**Since Fourier Transform of $x$ is continuous, $x$ is non-periodic.**

C. Is $x$ an even, odd, neither, or not enough information is provided?

**Since $x$ is real valued and its Fourier transform is purely imaginary then $x$ is odd.**

D. Is $x$ an energy signal, a power signal, neither, or not enough information is provided?

**An example of $x$ as a power signal that is continuous, odd, non-periodic**

$x = \sin(2\pi t^3)$

**An example of $x$ as an energy signal that is continuous, odd, non-periodic**

$x = \text{rect}(t)*t$

both of these work for the description, so **Not Enough Information.**