

- 1. Is this system linear?
- 2. Is this system time-invariant?
- 3. If x(t) is real-valued, what is y(t)?

## Answers

- 1) No. extending real part is nonlinear (consider i x(+))
- 2) Yes
- 3) \( \frac{1}{2} \time-domain or freq-domain approach ox