# Quizzes of TTK4225 - Systems Theory, Autumn 2020

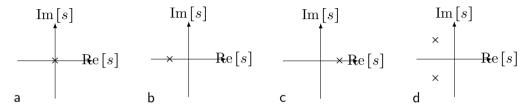
Damiano Varagnolo



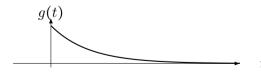
A strictly proper linear time-invariant system will always have a step-response that starts in  $\mathbf{0}$ 

- true
- false
- I do not know

Which of the pole zeros plots



corresponds to the following impulse response?



🕛 a

2 b

Can a LTI system have isolated equilibria?

- yes
- 2 no
- it depends
- I do not know

Can a LTI system have equilibria of different types?

- yes
- 2 no
- it depends
- I do not know

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Can a BIBO LTI system have more than just one equilibrium?

- yes
- 2 no
- it depends
- I do not know

Can a BIBO LTI system have simply stable equilibria?

- yes
- 2 no
- it depends
- I do not know

Can a delayed LTI system be BIBO stable?

- yes
- 2 no
- it depends
- I do not know

Can a non-causal LTI system be BIBO stable?

- yes
- 2 no
- it depends
- I do not know

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