Stephen Boyd

Ask me about anything that isn't clear.

Linear dynamical system $\dot{x} = Ax$, with $x(t) \in \mathbf{R}^n$

System is called **constant norm** if for every trajectory x, $\|x(t)\|$ is constant, *i.e.*, doesn't depend on t

System is called **constant speed** if for every trajectory x, $\|\dot{x}(t)\|$ is constant, *i.e.*, doesn't depend on t

Give an example of a constant norm system.

Give an example of a constant speed system.