

Handout 16: Describing functions, More

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Continuing on the switch nonlinearity

$$G(s) = \frac{1}{(s+1)^3}$$

Equation for the existence of sustained oscillations:

Another case:

$$G(s) = \frac{1}{s(s+1)}$$

Can there exist sustained oscillations?

Computing describing functions for sinusoidal signals
Example: Switch nonlinearity

Now for the real Math

More real math! - Hopefully not too many mistakes