07.11.19 mg

## Homework exercise 1: Solution sheet

Please use this sheet to fill in your results and hand it in together with the rest of your solution, i.e. your commented written calculations. Notice that giving only the results will not be credited.

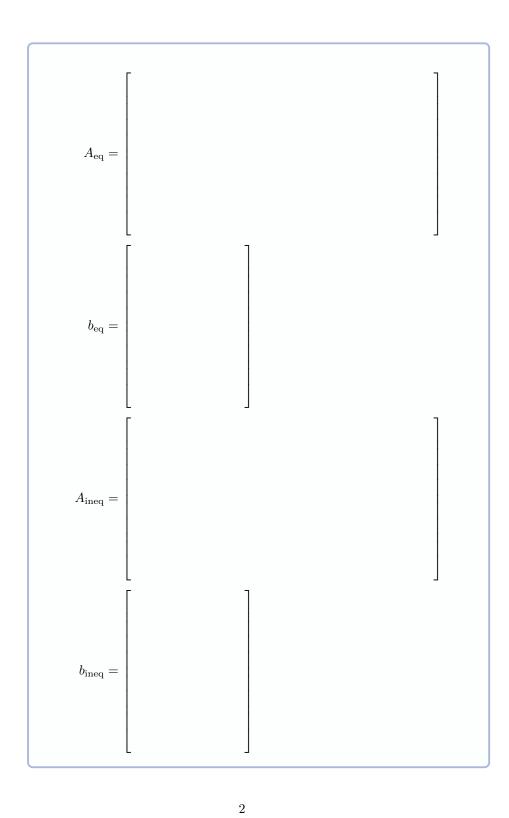
a)	Discretized	cost	functional	:
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 $J \approx$ 

b) No results have to be filled in.

c) Discretized differential equation:

$$x_{k+1} = x_k + u_k$$



e) Optimal solution:

$$y^* =$$

- f) No results have to be filled in.
- g) No results have to be filled in.
- h) No results have to be filled in.