Problem Wk.8.4.3: Controller gains

Use your system functions from Homework 2 to find the best gain (the one with smallest dominant pole) k_c for the head controller, given the following values for the sensor gain k_s .

Use the following values for the other parameters:

- $k_m = 250$
- $k_b = 0.48$
- $r_m = 4.5$
- T = 0.02

k_s	Mag dominant pole	k_c
1	0.73	4,20
2	0.73	1.60
3	0.74	1.07
4	0.73	0.80

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