

IOC 17013 Exercises — Lecture 7

1. Compute a real-rational solution to the NP problem for the data

$$\begin{array}{lll} a_1 = 1 & a_2 = 1 - j & a_3 = 1 + j \\ b_1 = 0.1 & b_2 = 0.2j & b_3 = -0.2j \end{array}$$

2. Solve the model-matching problem for

$$T_1(s) = \frac{1}{s+1} \quad T_2(s) = \frac{s^2 - s + 1}{(s+2)^3}.$$