

## MATE 4145 assignment 2

12–15 Exercises 5, 7, 11, 13 of §3.3.

16–17 Exercises 2, 3 of §3.4.

18–20 Exercises 9, 10, 11 of §3.5.

21–23 Exercises 1, 4, 5 of §3.6. For problem 22, do not compute the product matrix entry by entry, but rather expand first the product using algebra of matrix operations:  $(aI + bJ)(cI + dJ) = acI + adJ + \dots$ , then group terms.