Linear Algebra
Assignment 3.1 SpRING 2021
1.6. $\# 4,10,15$
1.10. \# 8, 12

Exercise 1. In Exercise 1.10.12, determine how many cars will be at each location when the system is at equilibrium.

Exercise 2. Use a linear system to compute

$$
\int\left(x^{2}-3\right) \cos 2 x d x
$$

by assuming the antiderivative has the form

$$
\left(a_{0}+a_{1} x+a_{2} x^{2}\right) \cos 2 x+\left(b_{0}+b_{1} x+b_{2} x^{2}\right) \sin 2 x+C .
$$

