

EXERCISES 1.9

Exercise 1.9.1

A factory has n suppliers that produce $x_1 \dots x_n$ per day. The factory is connected with suppliers by a system of roads, which can be used at variable capacities $c_1 \dots c_n$, so that the factory is supplied daily the amount $x = c_1x_1 + \dots + c_nx_n$.

- (a) Given that the factory production process starts when the supply reaches the critical daily level b , write a formula for the daily revenue.
- (b) Formulate the problem as a learning problem.

Exercise 1.9.2

A number of n financial institutions, each having a wealth x_i