EXAM FOR PROBABILITY & STATISTICS (6PAS1)
WINTER SEMESTER 2024/2025

QUESTIONS SET NO. 4

1. Define the binomial distribution, and compute its expectation and variance.

2. You are waiting at the stop where a bus and a tram stop. The bus comes every four minutes, and the tram comes every six minutes. Find the probability that
a) the bus will arrive before the tram;
b) the bus will arrive in less than 3 minutes, and the tram will arrive in less than one minute.