



MathsNET

A joined up approach to
teaching and learning
mathematics

The Chapman-Kolmogorov Relation

- Explain what the Chapman-Kolmogorov relation can be used to compute.
- Explain how the probability that $P(T_3 = b \wedge T_2 = c | T_1 = a)$ is computed from elements of the 1-step transition probability matrix and the justification for calculating this quantity in this way.
- Hence, explain how the probability that $P(T_3 = b | T_1 = a)$ is computed from the elements of the 1-step transition probability matrix and the justification for calculating this quantity in this way.
- Give a statement of the Chapman-Kolmogorov relation