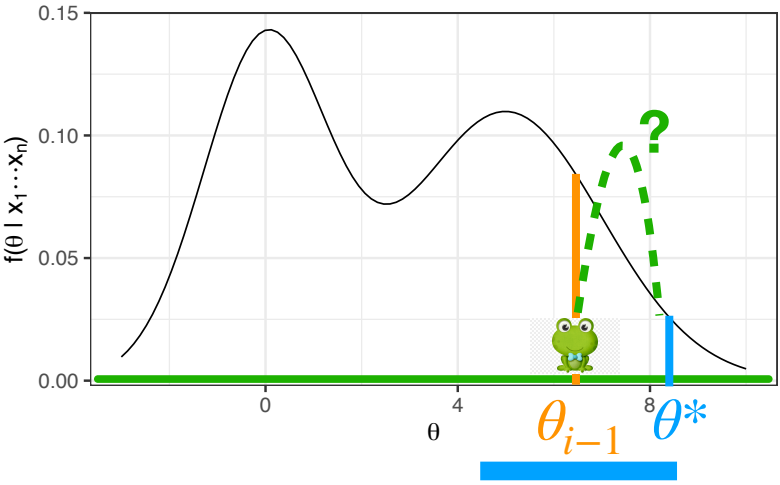
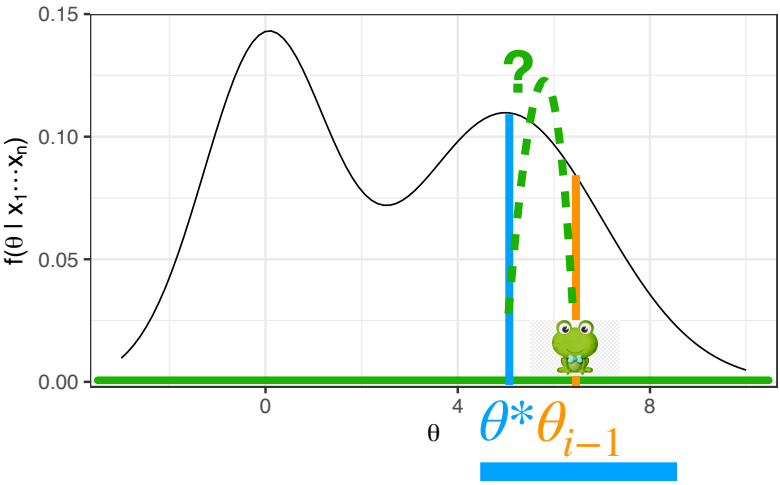
Case 1: Proposal Accepted with Probability r < 1



Proposal is drawn uniformly in this interval (in this example)

Case 2: Proposal Accepted with Probability 1



Proposal is drawn uniformly in this interval (in this example)