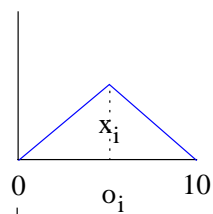
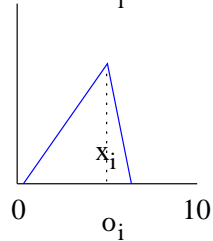


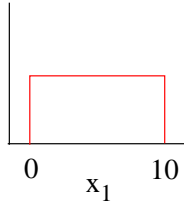
$$P(o_i | x_i, b_i=1) =$$



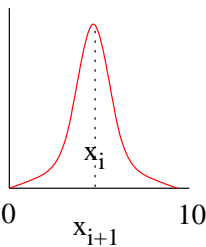
$$P(o_i | x_i, b_i=0) =$$



$$P(x_1) =$$



$$P(x_{i+1} | x_i) =$$



$$P(b_1=1) = 0.2$$

$$P(b_{i+1}=1 | b_i) = \begin{array}{c|c} b_i & P \\ \hline 0 & 0.2 \\ 1 & 1.0 \end{array}$$