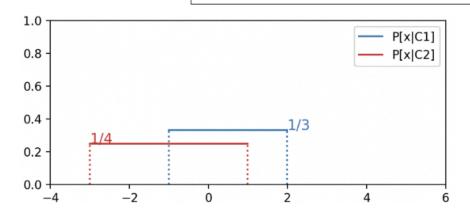
2. Suppose you classify a sample x using the MAP rule.

## MAP rule:

$$\mathcal{K}^* = \arg\max_k P[C_k|x] \propto P[x|C_k]P[x]$$



- 2.1 Classify the sample x = 0 when  $P[C_0] = P[C_1] = \frac{1}{2}$ . Use the two conditional densities above.
  - $K^* = ?$