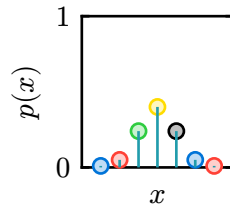
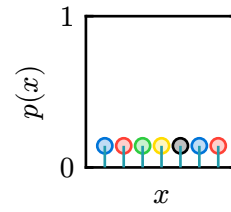


(a)  $H(p) = 1 \cdot \log 1 = 0$



(b)  $0 \leq H(p) \leq \log 7$



(c)  $H(p) = 7 \cdot \frac{1}{7} \cdot \log 7 = \log 7$

Figure 1: Entropies of different discrete distributions.