

Question 2

a.

$$\alpha((x, v) \rightarrow (v, x)) = \min\left(1, \frac{\pi(v)q(x|v)}{\pi(x)q(v|x)}\right)$$

b.

$$\bar{\pi}(x, v)K_2((x, v')|(x, v)) = \bar{\pi}(x, v')K_2((x, v)|(x, v'))$$

$$\bar{\pi}(x, v)K_2((x, v')|(x, v)) = \pi(x)q(v|x) * q(v'|x)$$

$$\bar{\pi}(x, v)K_2((x, v')|(x, v)) = \pi(x)q(v'|x) * q(v|x)$$

$$\bar{\pi}(x, v)K_2((x, v')|(x, v)) = \bar{\pi}(x, v')K_2((x, v)|(x, v'))$$