

hw 5

$$1) E(U_1) \Rightarrow \frac{(0.2 \cdot 2)}{3} + \frac{(0.3 \cdot 2)}{5} + \frac{(0.5 \cdot 2)}{2} = 0.753$$

$$E(U_2) \Rightarrow \frac{(0.4 \cdot 1.8)}{3} + \frac{(0.2 \cdot 1.8)}{5} + \frac{(0.4 \cdot 1.8)}{2} = 0.672$$

$$\checkmark E(U_3) \Rightarrow \frac{(0.5 \cdot 3.1)}{3} + \frac{(0.4 \cdot 3.1)}{5} + \frac{(0.1 \cdot 3.1)}{2} = 0.92$$

Route 2 is the winner.

$$E(U_1) = 1.26 + [0.3 \times 0.75] = 1.485$$

$$E(U_2) = 0.96 + [0.6] = 1.56$$

$E(U_3)$ is the winner.