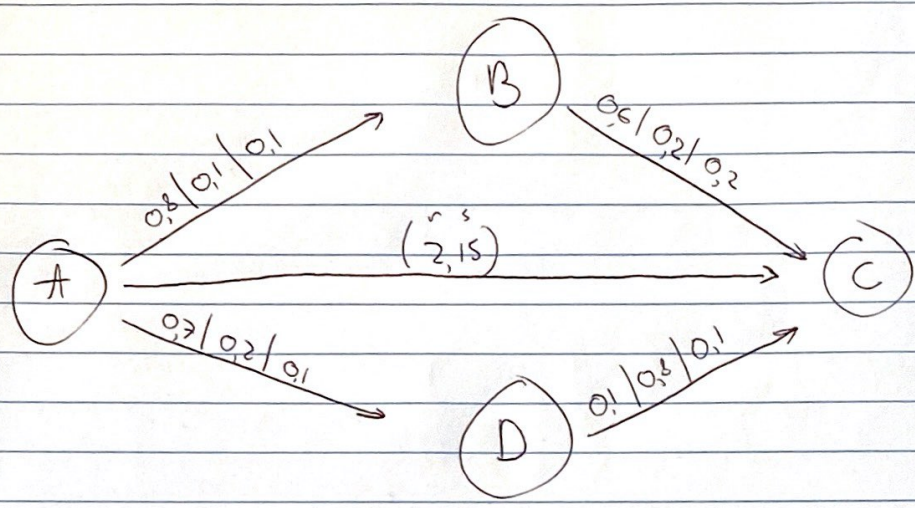


11



a) $w^{A:B} = (0.8 \times 0.6 ; 0.8 \times 0.2 ; 0.1 + 0.1 + 0.8 \times 0.2) = (0.48, 0.16, 0.36)$
 b) $w^{A:D} = (0.7 \times 0.1 ; 0.7 \times 0.8 ; 0.2 + 0.1 + 0.7 \times 0.1) = (0.07, 0.56, 0.37)$

Discounted rep

a) $(r, s) = (2 \times \frac{0.48}{0.36} ; 2 \times \frac{0.16}{0.36}) = (2.67, 0.89)$
 b) $(r, s) = (2 \times \frac{0.07}{0.37} ; 2 \times \frac{0.56}{0.37}) = (0.38, 3.03)$

Combine (r, s)

$r = 2.67 + 0.38 + 2 = 5.05$
 $s = 0.89 + 3.03 + 1.5 = 4.92$

Expected value

a) $E = \frac{2.67}{2.67 + 0.89 + 2} = \frac{2.67}{5.53} = 0.48$
 b) $E = \frac{0.38}{0.38 + 3.03 + 2} = \frac{0.38}{5.41} = 0.07$

Expected

$E = \frac{5.05}{5.05 + 4.92 + 2} = \frac{5.05}{11.97} = 0.42$

Rating

$Rep(r_c^A, s_c^A) = (0.42 - 0.48) \times 2$

$= -0.12$

~~Rating~~
~~Rep~~