

14.1 Mixed Strategy Equilibria

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A \ B	Hard	Soft
check	30, 20	30, 0
not	40, 20	10, 30

f $P(\text{check})$

g $P(\text{hard})$

$$U_A(\text{check}) = g \cdot 30 + (1-g) \cdot 30$$

$$U_A(\text{not}) = g \cdot 40 + (1-g) \cdot 10$$

$$U_A(\text{check}) = U_A(\text{not})$$

$$30 = 40g + 10 - 10g$$

$$20 = 30g$$

$$g = 2/3$$

$$U_B(H) = U_B(S)$$

$$20f + (1-f) \cdot 20 = 0f + (1-f) \cdot 30$$

$$20 = 30 - 30f$$

$$30f = 10$$

$$f = 1/3$$