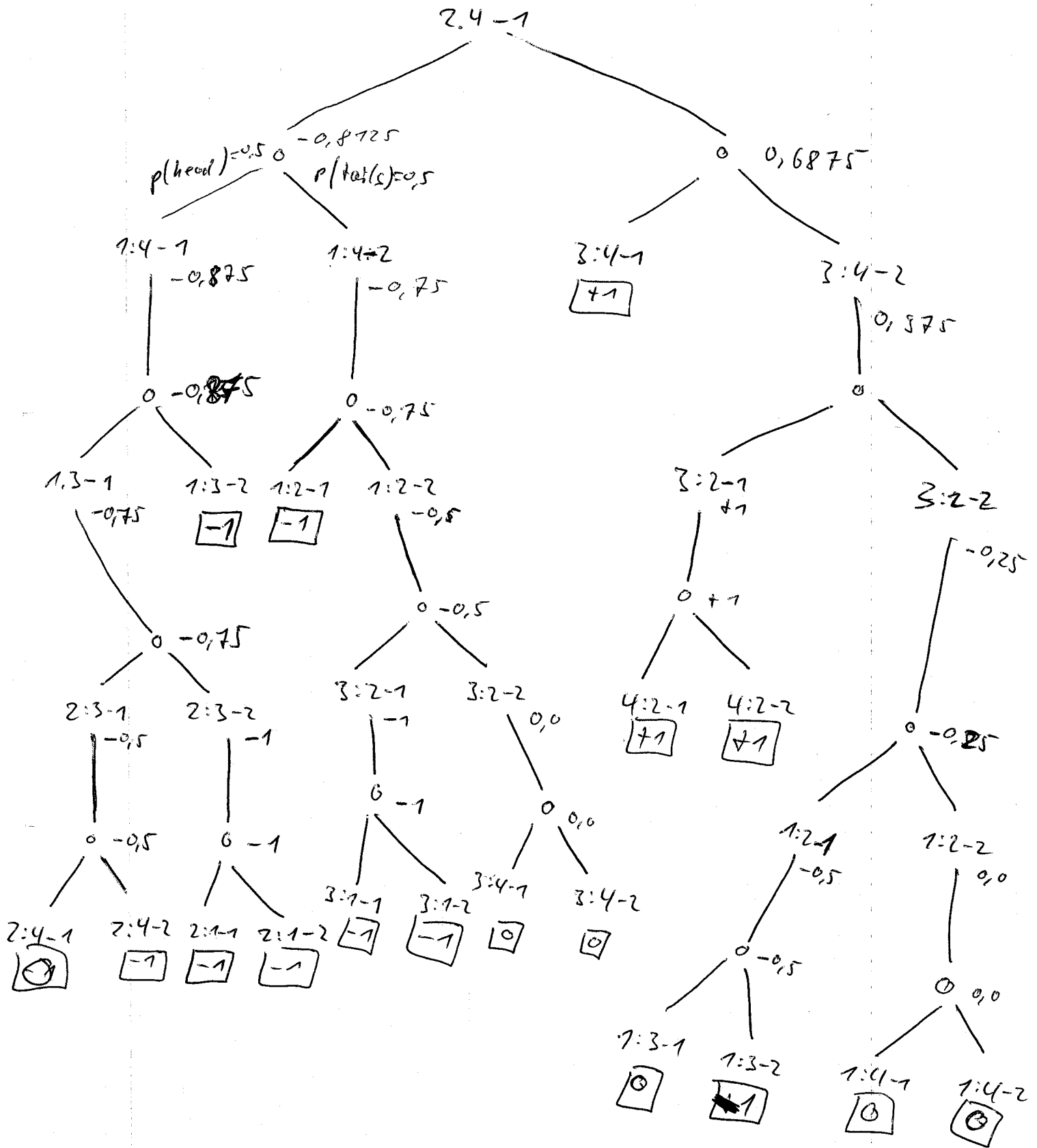


A1 Ü 5

Ex 3.2.)



$$\text{EXPECTIMINIMAX}(u) = \begin{cases} \text{UTILITY}(u) \end{cases}$$

$$= \max_{s \in \text{succ}(u)} \text{EXPECTIMINIMAX}(s) \quad \text{if } u \text{ is a MAX node}$$

$$= \min_{s \in \text{succ}(u)} \text{EXPECTIMINIMAX}(s) \quad \text{if } u \text{ is a MIN node}$$

$$= \sum_{s \in \text{succ}(u)} \text{EXPECTIMINIMAX}(s) \quad \text{if } u \text{ is a chance node}$$

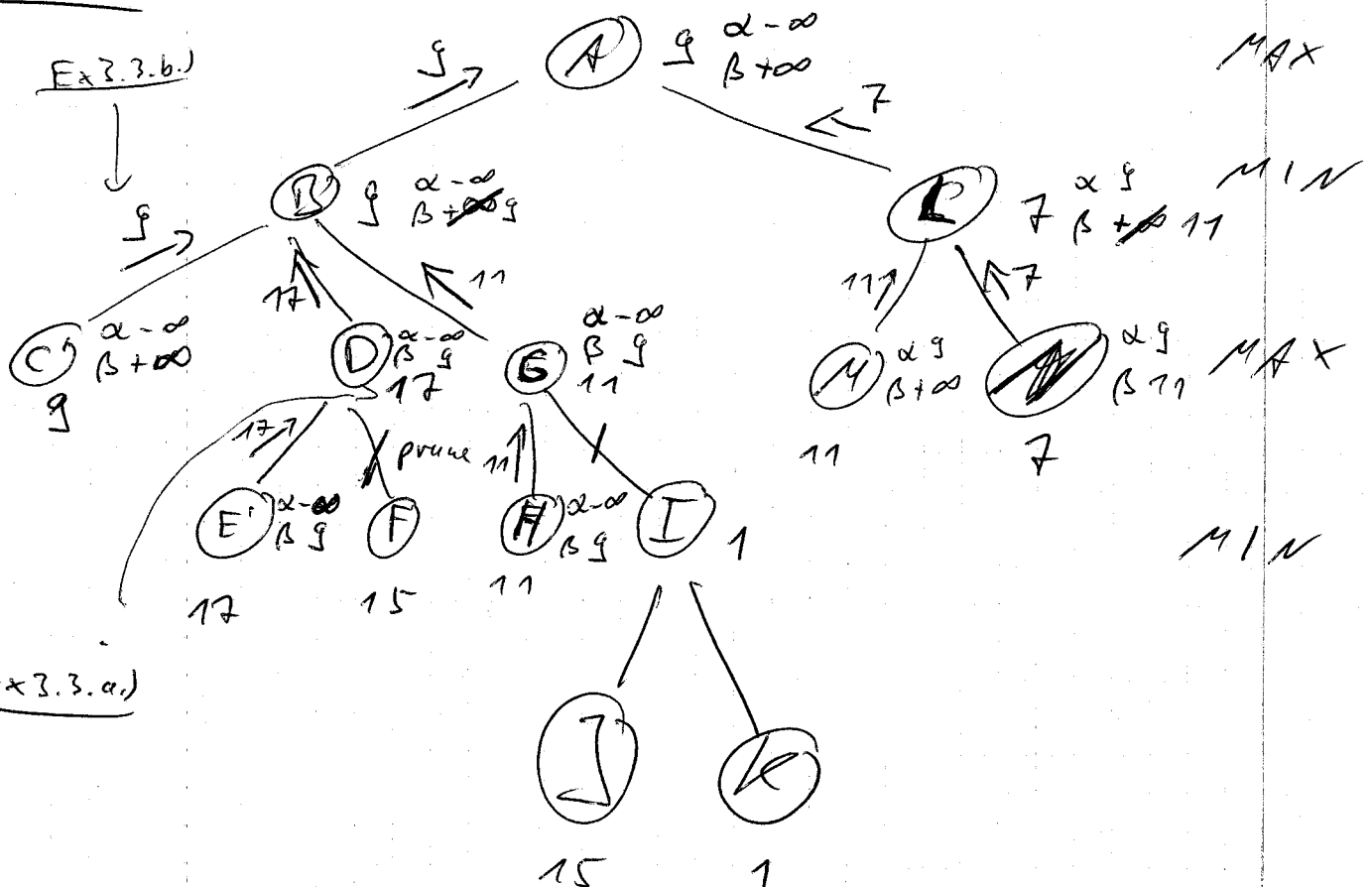
if u is a terminal node

if u is a MAX node

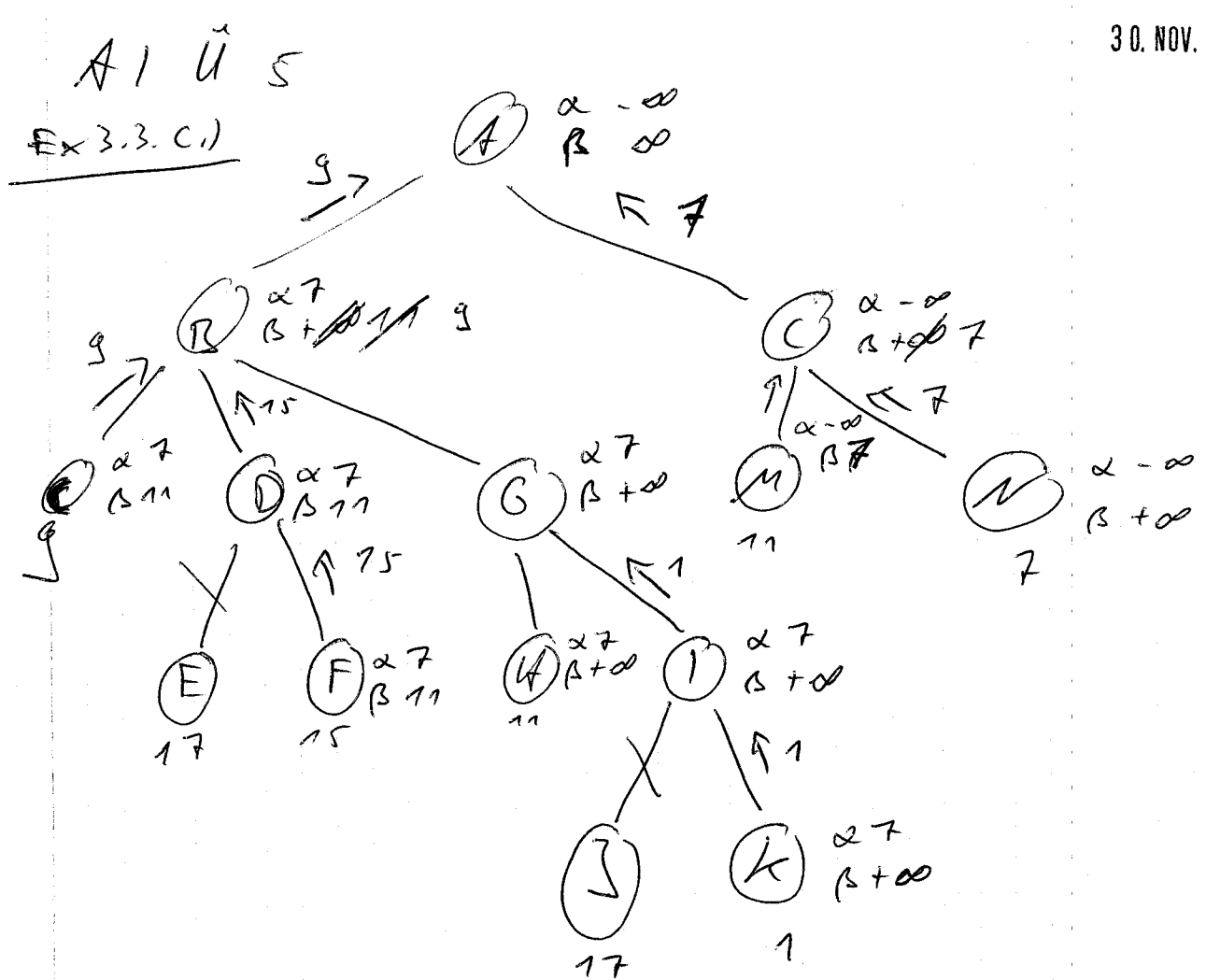
if u is a MIN node

Ex 3.3.)

Ex 3.3.b.)



Ex 3.3.a.)



Ex 4.1.)

q.) α is valid

iff for all $I = \langle \phi, D \rangle$ $I \models \alpha$

Interpretation function

↓ Domain

I satisfies α

(Definition of validity)

iff for all $I \models \text{TRUE}$ also $I \models \alpha$

(since all interpretations I satisfy TRUE , i.e. TRUE is valid)

iff $\text{TRUE} \models \alpha$

□

