

میں نے اس کو "امن اور حکومت" کہا۔ (1)
ایسا وہ بھائی تھا جس کو میراں کو اپنے

• 6 AND 30 seven weeks

• $b = 6$ kΩ σגנ' ב- 4000 מס' 105

the same time, as you can see, the more you will know.

Fe 3e" segno low then 'dn pe, 15

• (en132 9118 & 739101f 8621) 11132 11132

Frank "I'd ever" now A⁺ worse ill's, P.C.

to express current properties - etc. says etc.

• en förförande rörelse som förförande rörelse är

De jfjewr p'ewr p'k e' p'ce p'is, 10.1.9

150 ($k=0, 1, 2, 3$ reks) 2000 Review for B 800

228 were 30 p. 303 k now work up

• NB Fe yew 93% possess rights Kirk

Never persons never seen to seek her

MAP 30w Per 00, no review prob. Bw A

• Skewers were proposed as next step (RB) RB x

• (Answers) $\alpha \beta \gamma$ δ

∴ $\text{skew angle of slope, } \underline{\underline{\text{loc. 2}}} \rightarrow$



دیاں وہ

2/13/2020

!1- δ

~~Für den neuen PFB 3 e' Oneway~~

~~please note 4 new cases today~~

~~Mac 5 with 2nd, 2nd. 5 low Bbs~~

~~• відповідь на це питання~~

• WCF es sehr neu, p no

skew braces for Arg , $k\delta$.



- mark, 2 over 3 over 3 over 3 over, and
• AND support 1 over 1 over 1 over 1 over
• 3 over 3 over 3 over 3 over 3 over, p 10
-N 1k/1 h₁-N 10p 2m 2m $\frac{1}{2}$ h₃-e 110, 10.4
AND h₂-! h₁-e 10, p 5. (state 5 end) h₂
• 3 over 3 over 3 over 3 over 3 over 3 over
k & h₅-e 20 3 over k & h₃ p 10, 10.5
p 10 10 over 10 state 5 end 3 over
• (h₃ over h₅ end) end 10
• 3-1 cycle bottom 10 3 over 3 over 3 over

∴ k'w "sw" crew le servoj/100 nroen .k(2)

$$\text{Gain}(\text{"sw"}) = B\left(\frac{4}{10}\right) - \left[\frac{6}{10} \cdot B\left(\frac{4}{6}\right) + \frac{4}{10} \cdot B\left(\frac{1}{2}\right)\right] =$$

$$= -0.4 \cdot \log_2(0.4) - 0.6 \cdot \log_2(0.6) + \frac{6}{10} \cdot (0.67 \cdot$$

$$\cdot \log_2(0.67) + 0.33 \cdot \log_2(0.33)) + \frac{4}{10} \cdot \left(\frac{1}{2} \cdot \log(0.5) +\right.$$

$$\left. + \frac{1}{2} \cdot \log(0.5)\right) = 0.012 \text{ bits}$$

, $n_2 = 1$, $n_1 = 1$, $p_2 = 1$, $p_1 = 1$ kN813d Pk !P.5

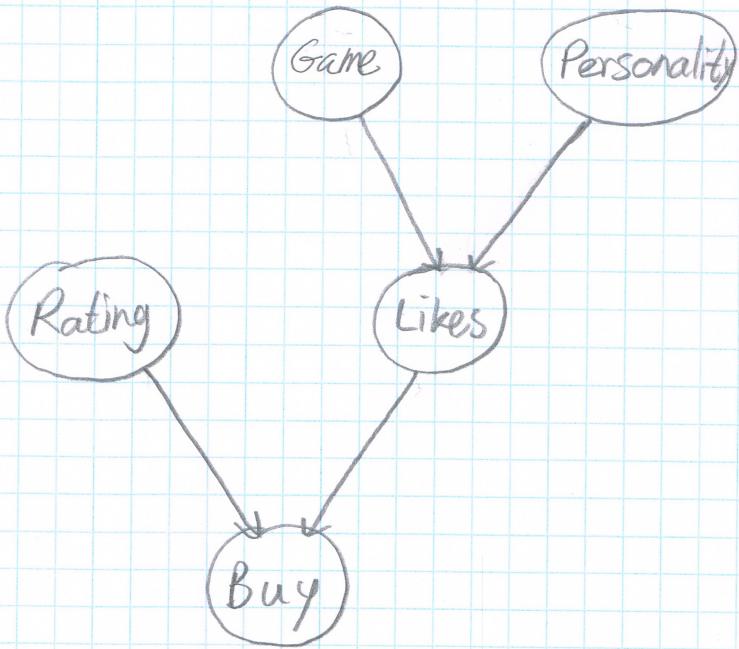
now kF A chance $\rightarrow E_2 = 2$, $E_1 = 2$

chance 5, C 11100 1111 p13d servojte

chance 11100 servojte upbit 1cf A

• 2cf nkey għiex kpk, C

py reprezantuje vztahy medzi 'Buy' a 'B'.
 Rating, Personality, Game sú premenne, ktoré
 majú vplyv na 'Buy'. Rating skenuje 'Likes' a 'Game'
 , Game sú premenne s vlastnosťou 'Likes' (premena).
 Personality je skenovaný ako 'Likes' a 'Buy'.
 : Skenovanie je výskumom nových rôznych faktorov



: výskum nových rôznych faktorov.

$$P(Buy = \text{true} | \text{Personality} = \text{typeB}, \text{Rating} = 3) = \\ = \frac{P(Buy = \text{true}, \text{Personality} = \text{typeB}, \text{Rating} = 3)}{P(\text{Personality} = \text{typeB}, \text{Rating} = 3)}$$

: výskum nových rôznych faktorov

$$P(B = \text{true}, P = \text{typeB}, R = 3) = P(P = \text{typeB}) \cdot$$

- $P(Likes = \text{true} | P = \text{typeB}) \cdot P(R = 3 | L = \text{true}) \cdot$

- $P(B = \text{true} | L = \text{true}) + P(P = \text{typeB}) \cdot$

$$P(L = \text{false} | P = \text{typeB}) \cdot P(R = 3 | L = \text{false}) \cdot$$

- $P(B = \text{true} | L = \text{false}) = 0.6 \cdot 0.8 \cdot 0.5 \cdot 0.3 +$

- + $0.6 \cdot 0.2 \cdot 0.1 \cdot 0.1 = 0.0732$

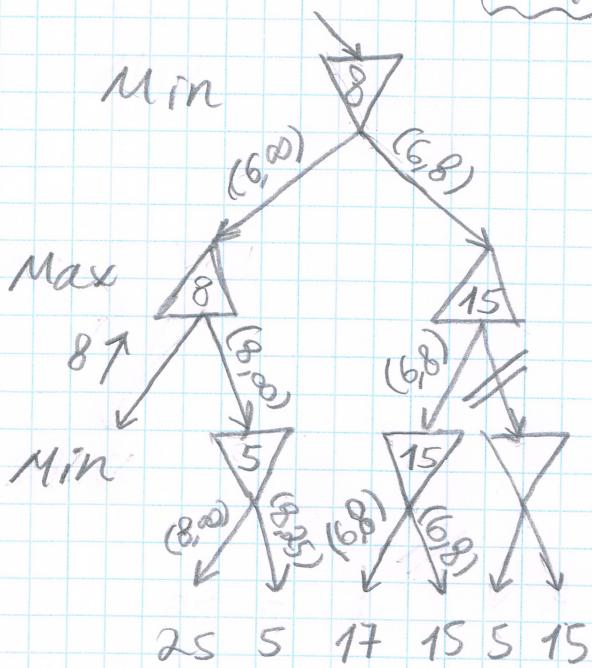
$$P(P=\text{typeB}, R=3) = P(P=\text{typeB}) \cdot P(L=\text{true} | P=\text{typeB}) \\ + P(P=\text{typeB}) \cdot P(R=3 | L=\text{true}) + P(P=\text{typeB}) \cdot \\ \cdot P(L=\text{false} | P=\text{typeB}) \cdot P(R=3 | L=\text{false}) = \\ = 0.6 \cdot 0.8 \cdot 0.5 + 0.6 \cdot 0.2 \cdot 0.1 = 0.252$$

: 100% correct answers, pP

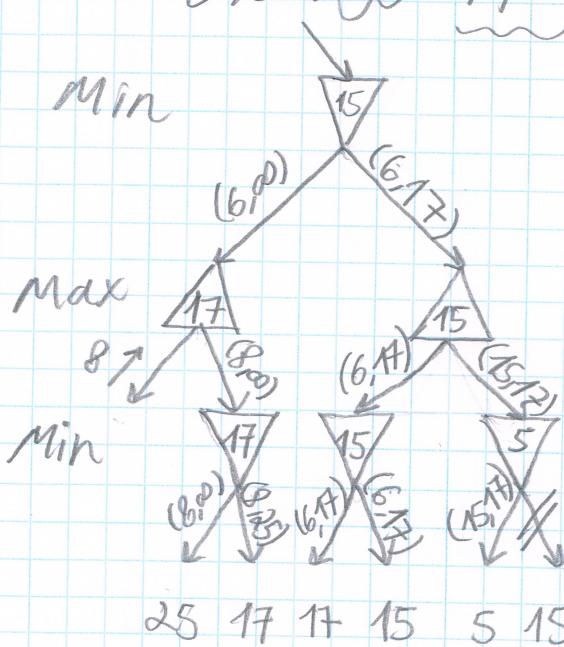
$$G(\theta) = \frac{0.0732}{0.252} = 0.2905$$

15 o'clock

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: P'kew P'NIB'wəxək Fev 17 2020 sp.



week, jnuw 'e wso oofc en 5 jgj, even
17 jgj en 110f, even sime en 110f
jgj in sime et/c ink 110f week

.28

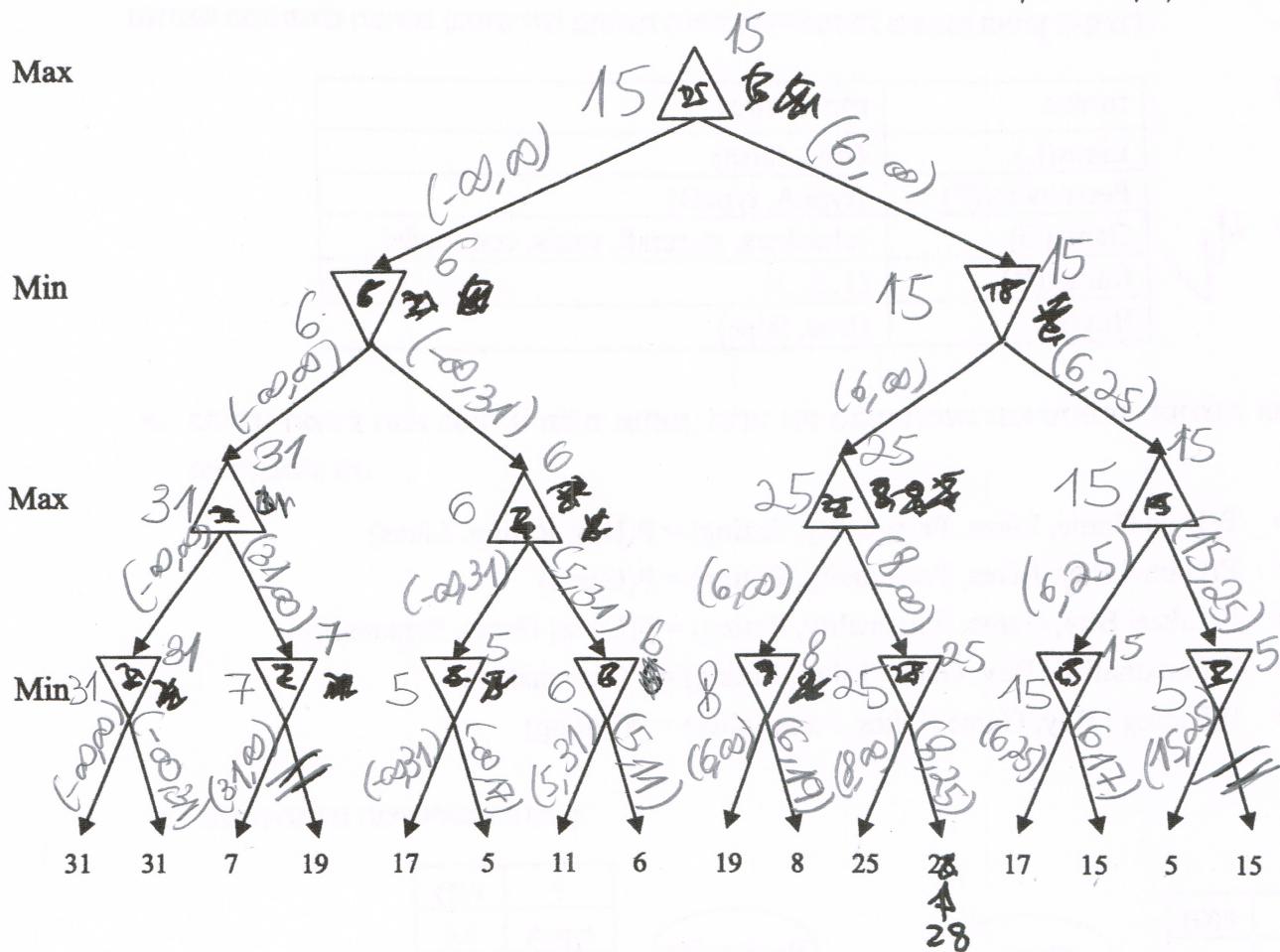
week 1f jgj en 110f week
op 110f jgj 110f week
ink p 110f, p P.W. Stenken even reg
. J.W. P. 110f

alle ink 110f week en 110f week
110f, P.W. week ink p 110f week
110f week 110f week ink 110f week
110f week ink, P.W. week ink p 110f
(ink) ink ink ink

P.W. week 110f week ink, P.W. week
even sime 110f even sime 110f week
110f week ink, P.W. week ink
. 110f week

שאלה 4 (15 נקודות: א' : 6 נק' ; ב' - 4 נק' ; ג' - 5 נק')

נתון עץ המשחק הבא:



השחקן בשורש העץ הוא שחקן MAX והעץ מסרך משמאל לימין.

א. ה. מהו ערך המינימקס של השורש? (1 נק')

ב. העתיקו את עץ המשחק למחברתכם וסמןו את כל הצמתים (הענפים) אשר ייגזו על ידי

אלגוריתם אלפא-ביתא כאשר סדר הסיריקה יהיה משמאל לימין. (5 נק')

ג. נניח שיכולנו לשנות את ערכו של העלם החמישי מימין (בעל ערך 28) ל-5 או ל-17. האם אחד מהערכיים האלו יאפשר לגזום יותר צמתים בחיפוש? אם כן, איזה ערך מביניהם יאפשר לגזוםichi חרבה צמתים? נמקו.

ד. מה יקרה אם אלגוריתם אלפא-ביתא יופעל על אינטראול ריק ($a, a+1$) כלומר α מספר שלם

$$\alpha + 1 = \beta ?$$

משמעותו: מניחים כי ערכי הממצבים הם שלמים.

המשך הבדיקה בעמודו הבא

: perko pho (5)

- : perko sebasat apwB n'coewu nk emj.k
- (1) $\forall x ((\text{Human}(x) \wedge \text{MadeOfWood}(x)) \rightarrow \text{witch}(x))$
 - (2) $\forall x (\text{Duck}(x) \rightarrow \text{MadeOfWood}(x))$
 - (3) $\forall x (\exists y (\text{SameWeight}(x, y) \wedge \text{Duck}(y)) \rightarrow \text{MadeOfWood}(x))$
 - (4) $\text{SameWeight}(A, D)$

: CNF $\neg \exists x \neg \text{SameWeight}(x, A) \rightarrow$

- (1) $\neg \text{Human}(x) \vee \neg \text{MadeOfWood}(x) \vee \text{Witch}(x)$
- (2) $\neg \text{Duck}(x) \vee \text{MadeOfWood}(x)$
- (3) $\neg \text{SameWeight}(x, f(x)) \vee \neg \text{Duck}(f(x)) \vee \text{MadeOfWood}(x)$
- (4) $\text{SameWeight}(A, D)$

k'g se'ks" cperio upk nk 4.0y.6
rank need oOJ/ Jg's o.0nf "se'ks"
: neR30 n'k'g

- (5) $\neg \text{Witch}(A)$
- (6) Res from 1+5: $\neg \text{Human}(A) \vee \neg \text{MadeOfWood}(A)$, $\Theta = \{x/A\}$
- (7) Assume: $\text{Human}(A)$
- (8) Res from 6+7: $\neg \text{MadeOfWood}(A)$
- (9) Res from 3+4: $\neg \text{Duck}(D) \vee \neg \text{MadeOfWood}(A)$,
 $\Theta = \{x/A, f(x)/D\}$
- (10) Assume: $\text{Duck}(D)$
- (11) Res from 9+10: $\neg \text{MadeOfWood}(A)$
- e aplo, p. 8-f 11 j'g se'ks yBp
yank'g se'ks p. 8-f 11 j'g se'ks
.3120 k'g D-e' p. 8-f 11 j'g A se'ks w'p

'je lds

o'or er' perkez coens . myk'ro'coens 'je
(1 - PCI vnd sente) o'coens new
one fo'd pk'e myk'no' yew coens , Plei
yew o'v' fo'd pk'e myk'so' sk
. x'nsn sene 'k'm' leaper