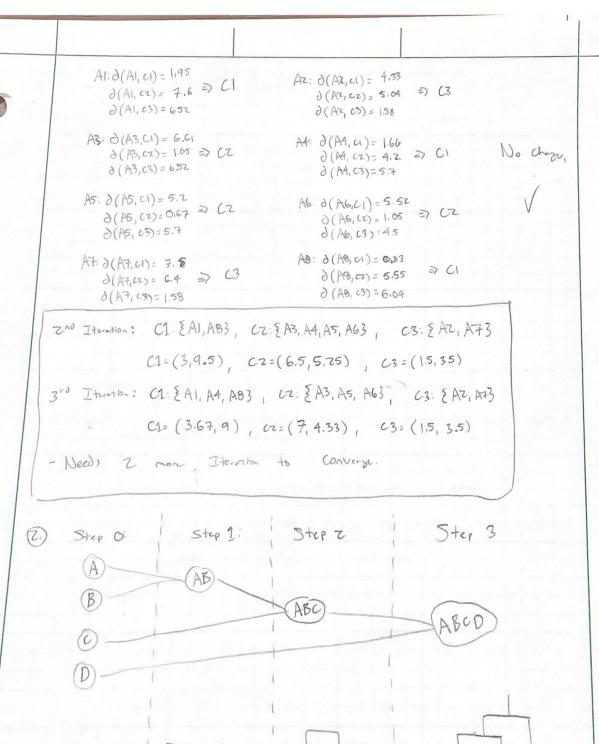


b)
$$C_{1}=(z,10)$$
 $C_{2}=(\frac{8+5+2+6+4}{2+5+2}) = (6,6) \Rightarrow (C_{2}=(\frac{7}{2},10))$
 $C_{2}=(\frac{8+5+2+6+4}{2}) = (\frac{3}{2},\frac{7}{2})$

C) $A_{1}: d(A_{1},C_{1}) = 0$
 $d(A_{1},C_{2}) = 4J_{2} \Rightarrow CI$
 $d(A_{1},C_{2}) = 4J_{2} \Rightarrow CI$
 $d(A_{1},C_{2}) = 551$
 $A_{2}: d(A_{2},C_{1}) = J_{1}^{2}$
 $d(A_{1},C_{2}) = 551$
 $A_{3}: d(A_{3},C_{1}) = J_{2}^{2}$
 $d(A_{3},C_{2}) = 552$
 $d(A_{3},C_{3}) = 552$
 $d(A_{4},C_{3}) = 552$
 $d(A_{5},C_{5}) = 664$
 $C_{1}=(\frac{2+6}{2},\frac{9+6}{4})$
 $d(A_{1},C_{2}) = J_{1}^{2}$
 $d(A_{5},C_{5}) = 155$
 $d(A_{5},C_{5$



DIABCD

3)		1 = 1(8)		15 2/5	
	Class	Leaver 7 (+1)	Factor Z (Fe)	1-ceture 5(13)	
	A	N	y	Y	
	A	N	Y	· V	
	A	Y	N	N	T.
	A	\ \	N	Å	
	A	Ÿ	Y	\ \frac{1}{V}	
	B	N	N	N	
	B	N	<i>N</i> .	N	
	В	V	N	N N	
	B	Y	2	Y	
	B	Ý	N	12	
	В	Y	N	2	
		F ₂ A B Y 6 Z N 3 8)-E(Fi)=0.0170 I(AB) E(Fi) 6.811 0.815		1 T (3,8) = 0.831
	Gra	in (Fz) = I(10,0	9) - E(Fz) = 0.16	07	
6	nain Fg:	F5 A B Y 8 Z N 1 8	I(AB) E(0.722 0.503	$(F_s) = \frac{10}{19} I(8, z) +$	9 7 (1,8) = 0.618
	Gia	n(F3)= I(10,9) - E (F3) = 0.38	30	
,	Now !	Find information	Sur for FIF	it given state	of F3
F3	3= 1:	F1 A B V	I(A,B) E1		+ % [(5,1)=0,745
		N 5 1	0.6500 I	(8,2) = 6,70	19
			Gala (F1) =	0.00661	

FZ	A	B	I (A,B)	E(FZ)=	75 I(6.1) +	3 1	(z,1)=0.6899
У	6	1	0,592			10 -	
N	2	1	0.918				

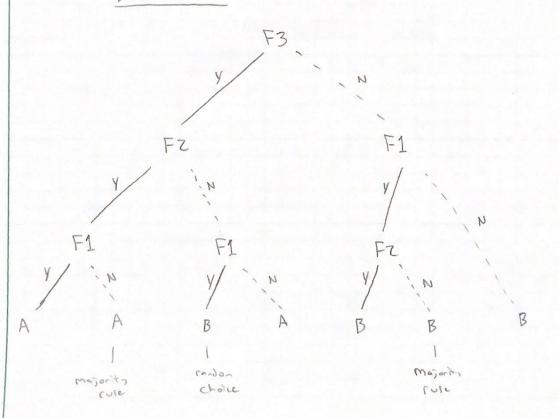
Gain (FZ) = 0.03212

F1 A B
$$I(A_1B)$$
 $E(F1) = \frac{4}{9}I(1_13) = 0.4742$
V 1 3 0.9544
N 0 5 0 $I(1_1B) = 0.50326$

Gan (F1) = 0.079065

Gal (FZ) = 0.0200

Decision Tree:



b)
$$X = (F1 = V | F2 = N, F3 = N)$$
 $P(F1 = V | Closs = A) = 4/a$
 $P(F1 = V | Closs = B) = 6/10$
 $P(F1 = V | Closs = B) = 6/10$
 $P(F2 = N | Closs = A) = 3/a$
 $P(F2 = N | Closs = A) = 3/a$
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 $P(F2 = N | Closs = A) = 3/a$
 $P(F3 = N | Closs = A) = 3/a$
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 $P(F3 = N | Closs = A) =$

=> X belongs to Class B