Awign monts

1

a chartered a equadon: 92 9 - 6

9 = -5 and 1

X+ 42=90= 3

-5 a, + 42 = \$a, = 6

Dolving $\alpha_1 = -\frac{1}{2}$, $\alpha_2 = 3\frac{1}{2}$

B em chartustic quation -> 92-71+10

1 = -5 and - 2

 $\alpha_1 + \alpha_2 = \alpha_0 = 2$, $-5\alpha_1 - 2\alpha_2 = \alpha_1 = 1$

 $\alpha_1 = -\frac{5}{3}$, $\alpha_2 = \frac{11}{3}$

Nulore $a_n = -\frac{5}{3}(-5)^n + \frac{11}{3}(-2)^n$

(moartistic equal. n 82- GI+8 9 = -4 and -2 $\alpha_1 + \alpha_2 = \alpha_0 = 4, -4\alpha_1 - 2\alpha_2 = \alpha_1 = 10$ Solving 41 = -9, X2 = 13 $an = -9(-7)^m + 13(-2)^m$ (mortishe oquation 12-21+1 Mass 1 = -1 and Other Q1 + OQ2 = Q0 = 4 $-\alpha_{1} - 1\alpha_{2} = \alpha_{1} = 1$ a1=4 a2=5 an = 4 (-1) n - 5n (-1) m

$$\Lambda = -1$$
 and I

$$\alpha_1 + \alpha_2 = \alpha_0 = 5$$

$$0 = 3 \quad x_2 = 2$$

chortushe equation

$$\alpha_{1}(-5)^{m} + \alpha_{2}1^{m} = \alpha_{1}(-5)^{m} + \alpha_{2}$$

$$01 = -1/ 02 = 3$$
 $0n = -(-5)^n + 3$

The chartishe equation 13-212-9+220 82(1-2) (1-2) =0 =) (A-1) (A+1) (A-2) =0 => 8=-1,1,2 $q_n = \alpha_1 (-1)^n + \alpha_2 (1)^m + \alpha_3 (2^n)$ $\alpha_1 + \alpha_2 + \alpha_3 = 3 - 0$ $-\alpha_1 + \alpha_2 + 2\alpha_3 = 6 - 0$ 9, + 02 + 43 = 0 -(11) from (1) d (1) Q 242 + 603 = 6 - (IV) from (1) & (11) 292 + 30/3 = 9 From (IV) d(V) 3 ×3 = -3 => ×3 = -1

az= 6, a1=-2 $an = (-2)(-1)^m + 6(1)^m + (-1)(2)^m$ an = 000 2(-1) 1 + 6(1) 1+ (-1) 12) a b daller ma b Not Reflexive -> a s not taller Man A Not Symmetric > VB a us faller man of not faller mon A Antsy mmetric > Yes transitive > Yes bx>y
x>z
nox>z

and b were born on the Reflexive -> Yes as but on the Dome day as a a and b both born Dymmetic> Y& on the same day and construction on be bornon difficult days transique ne x==2 at a has the same fust name suffexive > Yes And symetric -> NO transitive -> YES

@ A and b have common grandparent Deflexive -> yes Symmetric > yes Onto, metric > NO transitue -> NO about Andsymetric => NO trunsique > NO

Deflexive! Yes Symmetric: Yes Dobsymetric: No transitive: Yes

elefexive: yes

symmetric: yes

condi-symetric: yes

transitive: yes

suffexive > No symetric > No and symetric > Vis transique > NO

Sumetric > Yes

Symetric > Vis

annosymetric > No

trunsitive > No

suffexive -> Yes symetric -> Yes transitive -> Yes Equivalence relation > true Dymetric > You Fransing > Yo Equivalence relation > true O reflexive > You

Dynetic > You

transitive -> No Equivalence relation = false 4 Some answer as option = Same answer as option =