Taking Expectation by "rolling back" a tree = 21 (1-v)(1-c)+30(1-V)c+13(V) $P(s/\overline{v}) = (1-c) \Rightarrow (20+1)(1-v)(1-c)$ $P(\overline{v})=1-v$ Sherbert P(5/V)=C > (2010)(1-V)C 110 Vegan P(S/V)=1 ⟨12+1) V P(V)=V shevbert

27 Feb24 PU/B) = P(ANB) PB EnF'=G Er E'NF' 1(E), XF/ 16/40 P(E') = P(F) + P(G)P(F') = P(E) + P(6 P(E'U(FnF')U(ENFAG')) P(F'UE U P(1) 0 = = 1/ AFINY
P(F'nF') F(E/F) = P(E) $P(A \cup B) = P(A) + P(B)$ (A1B) = \$ E

$$P(E) P(F) = P(E/F)P(F) = 0$$

$$P(E \cap F) = 0 \rightarrow P(E/F) = 0$$

$$P(E' \cap F) = 0 \qquad P(F/E') = 0$$

$$P(E|P(F/E')) = P(F')P(E')$$

$$Q = P(F')$$

$$A^{T}A^{T} = 2.7: \quad q_{1}v_{1} + q_{2}v_{1} + q_{3}v_{3} = 0 \Rightarrow q_{1}q_{2}q_{3} = 0$$

$$q_{1} = q_{2}q_{3} = 0$$

$$q_{2} = q_{3} = 0$$

$$q_{3} = q_{3} = 0$$

$$q_{3} = q_{3} = 0$$

$$Q_{4} = q_{3} = 0$$

$$Q_{5} = q_{5} = q_{5}$$

$$Q_{6} = q_{6} = q_{5}$$

$$Q_{6} = q_{6} = q_{5}$$

$$Q_{6} = q_{6} = q_{6}$$

$$Q_{7} = q_{7} = q_{7}$$

$$Q_{7} = q_{7} = q_{7} = q_{7}$$

$$Q_{7} = q_{7} = q_{7} = q_{7}$$

$$Q_{7} = q_{7} = q_{7} = q_{7} = q_{7}$$

$$Q_{7} = q_{7} = q_{7} = q_{7} = q_{7} = q_{7}$$

$$Q_{7} = q_{7} = q_{7} = q_{7} = q_{7} =$$

(3) Midker practice 'Probabilit 2' 6 math books 4 physics MMMMMM PPPP P(a series of 'MMM' appears in permotations of 10 books.). Basiz concept: Each slot in the permutation is one choice of of the n possible.

Tone of 10

PM P* two out of 10

PM 2 3 4 5... 10 Escapialy me a chosing a permotation of indexas. 1,3,7,10 | chose 4 things out of 10 (10) = Trich: consider the sequence MMM (10)
as another item. So there are only

8 slots - one with 'MMM'

(n)=(Since $\binom{n}{r} = \binom{n}{n-r}$ $= \binom{8}{4}\binom{8}{5}\binom{8}{3}$ Physics books Mun remailing moth Lots. $-\frac{(8.7.6.5)(8)(8.7.6)}{4.3.2} - total combinations$ But that's a different publem. We are bothing for the occurrence of a particular combination {M, M2 M3} octof He 10: (10) My sola is #of 3 met ambine tons/_ 1all 8 stotowderings / (10) = 784 (3)(3)(3)