A fair coin is tossed four times. Let X denote the number of heads on the first toss, Y the number of heads on the first two tosses, and let Z denote the total number of heads in four tosses.

1) Find $f_{XYZ}(0, 1, 2)$.

1 point

For O neads on first toss,
I head on first 2 toss and
2 total heads

> Rossible combinations are = THHT, THTH

 $\Rightarrow f_{xyz}(0,1,2) = 2\left(\frac{1}{16}\right) = \frac{1}{8}$

Q) Find fxyz(0,1,4)

> Possible combinations = None

Total toss = 4

if 0 heads on first toss

>> it must be toils, but total heads is 4

which is contradicting

0) Frd Fx>2(1,1,3)

=> Possible combinations = HTHH=> $f_{x+2}(1,1,3) = 1$