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The two-derk experiment. Prib (but cauls are the same) - Prob (All + Att, Ktt + AH, ZCXZe) = Prob(Atl+Atl) + Prob (KH+KH) + Possibilities i Prob (AHNAH ank HNKH) Dave Chris AH AH < 52' possibilior HA RH

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Independence P(A|B) = P(A)Statisticians P(A+B) = P(A) P(B)

Answer to the 2-deck guartian is

$$\frac{1}{52} - \frac{1}{52} + \frac{1}{52} - \frac{1}{52} + \dots (52 \text{ cylins})$$

 $= 52 \int \frac{1}{52} - \frac{1}{52} = \frac{1}{52}$

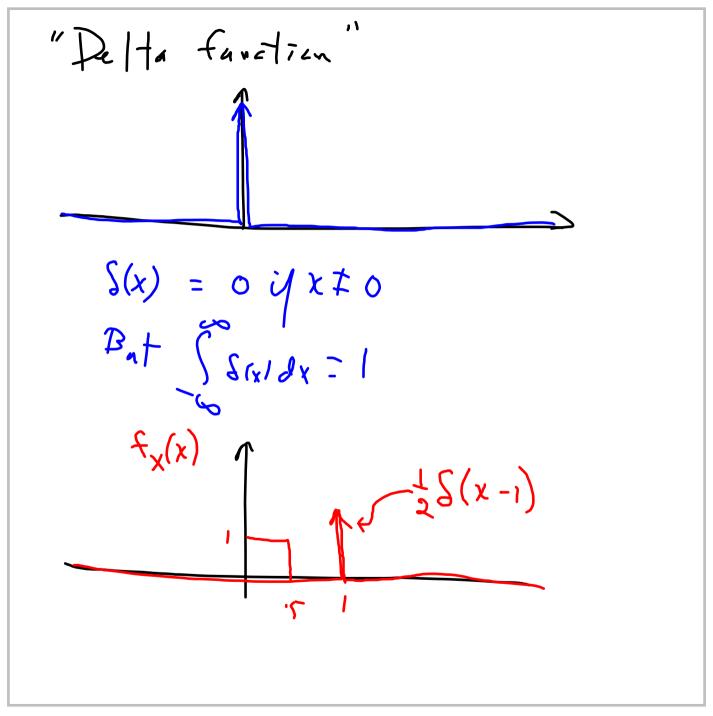
) • 5 X = distane fran laver elge. χ 6 < X < .5 2

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Experiment. Flip & roin:
if H, voll ball on billion d
table:
$$X = location$$

if T, $X = 1$.
 $f_X(r)$
 $d_{ren} = 1/2$
 $f_{X}(r)$
 $f_$

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Rolladie odd #, ðſ 2 or 4 $\chi =$ 6, Ŗ .5 4 -

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