6.10.3 Microchips

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a) 
$$f(x)=\frac{(\frac{7}{2-x})(\frac{5}{x})}{(\frac{1}{2}-x)(\frac{5}{x})}$$

$$\binom{2}{2} = \frac{1}{2!(3-2)!} = \frac{2 \cdot 6 \cdot 5!}{2!(1)} = 2 \cdot 3 = 21$$

$$(\frac{3}{3}) = \frac{3!}{0!(3-0)!} = \frac{3!}{3!} = 1$$

$$f(0)=(\frac{2}{2})(\frac{2}{6})=\frac{21}{95}=\frac{7}{15}$$

$$\binom{7}{1!} = \frac{7!}{1! (7-1)!} = \frac{7 \cdot 6!}{6!} = \frac{7}{1}$$

$$f(1) = \frac{\binom{7}{7}\binom{3}{7}}{\binom{19}{2}} = \frac{7 \cdot 3}{45} = \frac{7 \cdot 3}{15 \cdot 3} = \frac{7}{15}$$

$$\binom{3}{6} = \frac{3!}{0!(3-6)!} = \frac{7!}{3!} = 1$$

$$\binom{3}{2} = \frac{3!}{3!} = \frac{3-2!}{3!} = \frac{3}{3}$$

$$\binom{3}{2} = \frac{3!}{2!(3-1)!} - \frac{3!}{2!} - \frac{3-2!}{2!} - \frac{3}{2!}$$

$$f(2) = \frac{(\frac{2}{3})(\frac{2}{3})}{(\frac{2}{3})} = \frac{3}{45} = \frac{1}{45}$$

6.10.3 f (x1= (2-x)(3) a) En este caso la tunción de probabilidad viene deulo por la distribuición hipergeométrica. f(x)= G=x)(x)/(n) donde N: tanaño de la población: 10 ni tanciro de la Muestiniz, 11 : contident de chips no defectivosos: + Dz: Contiduel de chips defectuosos: 3 xi el número de microchipi desectusios en la musta: 0,1,2 al (Rempluzur terenos: f(x) = (2-x)(x)(10)