

Corrections.

In proofs:-

Proof of Corollary 14.6

$$\begin{aligned}\Pr(NT^m X = j) &= \Pr(NX = j) \\ &= \frac{1}{\log 2} \int_{j-1}^{(j+1)^{-1}} \frac{1}{1+x} dx \\ &= \frac{1}{\log 2} \left[\log(1+x) \right]_{(j+1)^{-1}}^{j^{-1}} \\ &= \frac{1}{\log 2} \left(\log \frac{j+1}{j} - \log \frac{j+2}{j+1} \right) = \frac{1}{\log 2} \log \frac{(j+1)^2}{j(j+2)}.\end{aligned}$$

Second formula Solution Exercise 16.2 (i)

$$\frac{ar + bs}{r} = a + \frac{b}{r'/s'}$$

In proof of Lemma 16.3 long sequence of equations add brackets

$$\begin{aligned}&= S_{n-1}(x) + \frac{1}{2^{n-2}(n-2)!} \left(\int_0^x ((x^2 - t^2)t^2(x^2 - t^2)^{n-2}) \cos t dt \right. \\ &\quad \left. - x^2 \int_0^x (x^2 - t^2)^{n-2} \cos t dt \right)\end{aligned}$$