Example 4.4 $T = \frac{2}{\sqrt{U/v}} \frac{2 N N(0,1)}{V N N(0,1)}$ $f_{T}(t) = \frac{T'((v+1)/2)}{T'(v/2)} \frac{1}{\sqrt{U}} \frac{(1+\frac{t^{2}}{v})^{-(v+1)/2}}{\sqrt{U}}$ $f_{T}(t) = \frac{2}{\sqrt{U/v}} \frac{2 N N(0,1)}{\sqrt{U}}$ $f_{T}(t) = \frac{2}{\sqrt{U/v}} \frac{2 N N(0,1)}{\sqrt{U/v}}$ $f_{T}(t) = \frac{2}{\sqrt{U/v}} \frac{2 N N(0,1)}{\sqrt{U/v}}$ For V=1: $f(t) = \frac{T(1)}{T(1)} \cdot \frac{1}{\sqrt{\pi}} (1+t^2)^{-1}$ Note T'(1) = 1 because T'(1) = (n-1)! for $u \in \mathbb{N}$, $T'(\frac{1}{2}) = \sqrt{T_1}' \left(\text{lastweek?} \right)$ $0 = \frac{1}{T_1} \left(\frac{1}{T_1} \right) = \frac{1}{T_$ $|ET = \int_{t}^{t} \int_{t}^{t} |f| dt + \int_{t}^{t} \int_{t}^{t} |f| dt = \frac{2}{sym metry}$ $= -\infty$ $= -\infty$ $= -\infty$ $= -\infty$ $= -\infty$ $= -\infty$ So the result depends on how guilds you send the integral is Said to not exist.