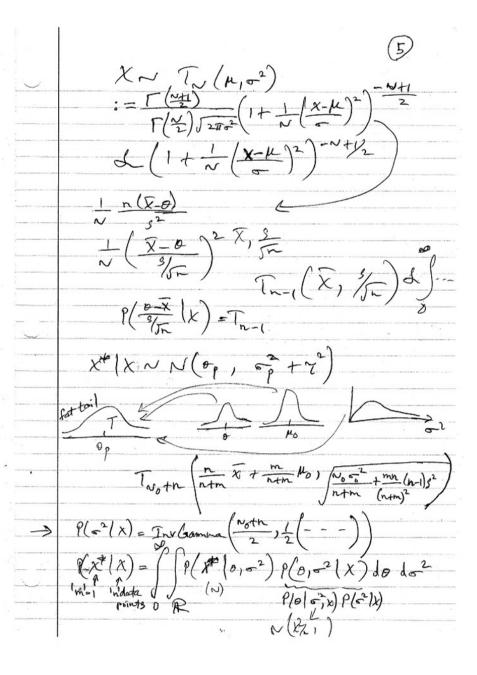


(3) In other way $P(o,\sigma^2(x) \perp P(x(o,\sigma^2))P(o,\sigma^2) \perp (\sigma^2) = \frac{-1}{2} \left(\frac{1}{n(x,o)}\right)$ = N (n (x) + m (Mg) of many in small - Mo (prior) M.241 Cov(0, 2) 7 Computer Finding 0 P(x+1x)= (P(x+10) %(k) manginalization chosate werage

(4) 910,00 $=\int_{-\infty}^{\infty} \left(\frac{A}{2t}\right)^{-\left(\frac{1}{2}+1\right)} e^{-\left(\frac{1}{2}+1\right)} \left(-\frac{A}{2t^{2}} dt\right)$ A A - 1/2 & t - 1/2 e t dt $\Delta A^{-1/2} = ((n-1)s^2 + n(\overline{x}-\theta)^2)^{-n/2}$ $\left(1+\frac{n(\overline{X}-o)}{(n-1)s^2}\right)^{-n/2}$



 $= T_{n-1}\left(\overline{X}, 3\sqrt{1+\frac{1}{n}}\right)$ $= 01 \times N T\left(\overline{X}, \frac{3}{\sqrt{n}}\right)$