Theregares Alexentyn 605-003 X, , xn; x; ~ & Ti N(m, G;2); m ~ N(mo, Go2), = ~ T(d; B;) a) p(x, m, 54 &, 15, mo, 50, Ti) = p(x/m, 6, Ti) p(m/mo, 502) p(62/d, 18)= = 17 (1/ T; N(X; 1 m, 5;2)) N(m mo, 62) 17 (= 2 | di, B;) S) $p(m, \sigma^2 \mid X, \lambda, \beta, m_0, \sigma_0^2, \pi) = \frac{p(X, m, \sigma^2 \mid \lambda, \beta, m_0, \sigma_0^2)}{p(X \mid \lambda, \beta, m_0, \sigma_0^2)} \propto$ p(x, m, 52 | d, B, mo, To2, Ti) - hyrum a) 6) p(x,m, 52, 21d, p, mo, 602, R) = \(\tilde{\pi}\) (\tilde{\pi}\) \(\tilde{\pi}\) \(\tilde{\p MT (fild; Bi) N (Mlmo, To2)