answer p(t^i = 1 | x^i) = $frac1\alpha * p(y = 1 | x)p(y = 1 | x) = p(y = 1 | x)p(x)p(t = 1 | y = 1, x) = p(y = 1 | t = 1, x) * p(t = 1, xp(y = 1, xp(y = 1, x) = p(y = 1 | t = 1, x) * p(t = 1, xp(t = 1 | y = 1, xp(y = 1, x) = \alpha p(t = 1, x)1p(x) * p(t = 1, x) = 1\alpha * p(y = 1, x) * 1p(x)p(t = 1 | x) = 1\alpha * p(y = 1 | x)$