VI derivation (non-intuttive) Write marginal log-like as a sum en p(x) = &(q(z)) + |(L(q(z)||p(z|x))) $d(q(z)) = \int q(z) \ln \frac{p(x,z)}{q(z)} dz$ Verification (at for EM) = $\int q(z) \ln \frac{p(x,z)}{p(z|x)} dz$ = (q(2) lup(x) dz = en p(x)We minimize KL(q12) ((p(ZIX)) by maximizing &(q(2)) (easier, often pussible).