E-step

Compute "expected" classes of all datapoints

$$P(Y_j = k | x_j, \mu_1 ... \mu_K) \propto \exp\left(-\frac{1}{2\sigma^2} ||x_j - \mu_k||^2\right) P(Y_j = k)$$

ivi-step	δ represents hard
Compute most likely new µ s given class	
, , ,	likely" or nearest
m	cluster
$\sum P(Y_j = k x_j) x_j$	$\delta(Y_j = k, x_j) x_j$

 $\sum \delta(Y_j = k, x_j)$