3.
$$P = \{(x_1, y_1), (x_2, y_2), ..., (x_n, y_n)\}$$
 $I = \{P, (x_1), P, (x_2), ..., (x_n, y_n)\}$
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$$\frac{1}{6} \sum_{x} \rho n \circ v = \frac{1}{6} \sum_{x} \rho n \circ v = \frac{1$$

$$= W^{T}(aX^{T}X+S)-2W^{T}(aX^{T}y+Sm)+ay^{T}y+m^{T}Sm$$
Compare with $(W-\mu)^{T}\Lambda(W-\mu)=W^{T}\Lambda W-2W^{T}\Lambda M+\mu^{T}\Lambda$

 $M = \Lambda^{-1}(a \times y + Sm)$

1= axxx+bI