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$$P(Y|X,\theta) = \prod_{n} N(y_n; \theta^T x_n, \sigma^2)$$
Factor analysis
$$P(X|X,\theta) = \prod_{n} \prod_{n} N(y_n d; \sum_{n} \frac{\theta}{\theta} d k x_n) S(2)$$

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$$P(X|X,\theta) = \prod_{n} N(x_n; 0, T_{K})$$

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