In 
$$P(x|u, 6^2) = -\frac{1}{26^2} \sum_{n=1}^{N} (x_n - u)^2 - \frac{14}{2} \ln 6^2 - \frac{14}{2} \ln (2\pi)$$

$$\frac{\partial \ln P(x|u, 6^2)}{\partial u} = -\frac{1}{26^2} \sum_{n=1}^{N} (x_n - u)^2 - \frac{14}{2} \ln 6^2 - \frac{14}{2} \ln (2\pi)$$

$$\frac{\partial \ln P(x|u, 6^2)}{\partial u} = -\frac{1}{26^2} \sum_{n=1}^{N} (x_n - u) = 0$$

$$\Rightarrow \sum_{n=1}^{N} x_n = Nu$$

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