```
WTS exp\left[-\frac{1}{2}\left(\left(\frac{\Sigma}{\Sigma}\phi(x_i-\theta)^2\right)+T(\theta-\theta_0)^2\right)\right]
        2exp(-\frac{1}{2}(t+n\phi)(\theta-\frac{1}{t+n\phi}(t\theta_0+\phi,\hat{\xi}_{xi}))^2) as a function of \theta
          0 = \exp\left[-\frac{1}{2}\left(\frac{\mathcal{L}}{1+\eta}\phi(x_i^2-2x_i\theta+\theta^2) + T(\theta^2-2\theta\theta_0+\theta_0^2)\right)\right]
2 = \exp\left[-\frac{1}{2}\left(T+\eta\phi\right)(\theta^2-\frac{2\theta}{2+\eta\phi}(T\theta_0+\phi_{i=1}^2x_i) + \frac{1}{(T+\eta\phi)^2}(T\theta_0+\phi_{i=1}^2x_i)^2\right)\right]
              = \exp\left[-\frac{1}{2}(\phi_{i=1}^{\Omega} x_{i}^{2} - 2\phi\theta_{i=1}^{\Omega} x_{i} + n\phi\theta^{2} + 1\theta^{2} - 2\theta1\theta_{0} + 1\theta\theta^{2})\right] \quad \text{a.exp}\left[-\frac{1}{2}(1+n\phi)\theta^{2} - 2\theta(1\theta_{0} + \phi_{i=1}^{\Omega} x_{i}))\right] \text{ in terms of } \theta
               = exp[-\frac{1}{2}(T\text{0}^2+n\phi\text{0}^2-2\text{0}\text{0}\text{0}-2\phi\text{0}\text{0}\text{2}\text{1}\text{1}+\phi\text{0}\text{2}\text{1}^2+T\text{0}\text{0}\text{1}]
             2 exp[-½(τθ²+πΦθ²-2Θτθο-2ΦΘΞXi)] in terms of Θ we perceive φ, τ, Θο, and ΞXi² as constants
              = PXP[-==((I+n\p)\02-20(TOO+\pi_=Xi))]
      Therefore, () is proportional to (2) as a function of (6).
```