$$\frac{Note \ on \ (5)}{Pelmm} = -\frac{1}{2} [lb \ dl]^{T} [A \ c^{T}]^{-1} [lb]$$

$$= -\frac{1}{2} [lb \ dl]^{T} [X]$$

$$= - \pm b^{T} \times - \pm di^{T} \times$$

$$= - \pm b^{T} (A^{T}b - A^{T}C^{T} \times) - \pm di^{T} \times$$

 $= -\frac{1}{2}b^{T}(A^{\prime}b - A^{\prime}C^{T}y) - \frac{1}{2}d^{T}y$ = Pmm + & yT (C(AT)TIb-d1)

= Pmm + = yT (CATIB-d1)