$$\Phi\omega \approx R + \gamma P^{\pi} \Phi\omega \tag{1}$$

$$Q^{\pi} = R + \gamma P^{\pi} Q^{\pi} \tag{2}$$

$$Q(s,a) = \omega^T \phi(s,a) \tag{3}$$

$$Q(s,a) = \sum_{i=1}^{k} \phi_i(s,a)\omega_i$$
 (4)

$$V^{\pi}(s) = \sum_{a} \pi(s, a) \sum_{s'} P_{ss'}^{a} [R_{ss'}^{a} + \gamma V^{\pi}(s')]$$
(5)

$$\Phi^T(\Phi - \gamma P^{\pi}\Phi)\omega^{\pi} = \Phi^T R \tag{6}$$

$$\Phi^{T}(\Phi - \gamma P^{\pi}\Phi)\omega^{\pi} = \Phi^{T}R$$

$$\delta_{t} = \min_{c} \|\sum_{j=1}^{|Dic_{t-1}|} c_{j}\phi(x_{j}) - \phi(x)\|^{2} \le \mu$$
(6)

$$c_t = K_{t-1}^{-1} k_{t-1}(x) (8)$$

$$\delta_t = k(x, x) - k_{t-1}^T(x)c_t \tag{9}$$