p. 114

$$\underline{w} = \sum_{l=1}^{L} \lambda_l t_l \underline{y}_l \quad ; \quad \sum_{l=1}^{L} \lambda_l t_l = 0$$

objective function on p. 113

$$L(\underline{w}, b, \underline{\lambda}) = \frac{1}{2}\underline{w}^T\underline{w} + \sum_{l=1}^{L} \lambda_l \left(1 - t_l\left(\underline{w}^T \underline{y}_l + b\right)\right)$$

$$= \sum_{l=1}^{L} \lambda_l + \frac{1}{2}\underline{w}^T\underline{w} - \underline{w}^T \sum_{l=1}^{L} \lambda_l t_l \underline{y}_l - b \sum_{l=1}^{L} \lambda_l t_l$$

$$= \sum_{l=1}^{L} \lambda_l + \frac{1}{2}\underline{w}^T\underline{w} - \underline{w}^T\underline{w} = \sum_{l=1}^{L} \lambda_l - \frac{1}{2}\underline{w}^T\underline{w}$$

$$= \sum_{l=1}^{L} \lambda_l - \frac{1}{2} \sum_{l=1}^{L} \sum_{k=1}^{L} \lambda_l \lambda_k t_l t_k \underline{y}_l^T \underline{y}_k$$