1. $\mathrm{y}=a(net)=\frac{1}{1+e^{-\lambda net}}$
2. $a'(\mathrm{net}) = \mathrm{y}(1-\mathrm{y})$
3. $\delta_9=a'_9(net_9)(\mathrm{d}-y_9)=y_9(1-y_9)(d-y_9)$
4. $\delta_6=a'_6(net_6)\sum_{\mathrm{i}=9}^{9} w_{i6}\delta_i=y_6(1-y_6)w_{96}\delta_9$
5. $\delta_7=a'_7(net_7)\sum_{\mathrm{i}=9}^{9} w_{i7}\delta_i=y_7(1-y_7)w_{97}\delta_9$
6. $\delta_3=a'_3(net_3)\sum_{\mathrm{r}=6}^{7} w_{r3}\delta_r=y_3(1-y_3)(w_{63}\delta_6+w_{73}\delta_7)$
7. $\delta_4=a'_4(net_4)\sum_{\mathrm{r}=6}^{7} w_{r4}\delta_r=y_4(1-y_4)(w_{64}\delta_6+w_{74}\delta_7)$

$\Delta \mathrm{w}_{96} = \eta\delta_9 y_6$
$\Delta \mathrm{w}_{97} = \eta\delta_9 y_7$
$\Delta \mathrm{w}_{98} = \eta\delta_9 y_8 = -\eta\delta_9$
$\Delta \mathrm{w}_{63} = \eta\delta_6 y_3$
$\Delta \mathrm{w}_{64} = \eta\delta_6 y_4$
$\Delta \mathrm{w}_{65} = \eta\delta_6 y_5 = -\eta\delta_6$
$\Delta \mathrm{w}_{73} = \eta\delta_7 y_3$
$\Delta \mathrm{w}_{74} = \eta\delta_7 y_4$
$\Delta \mathrm{w}_{75} = \eta\delta_7 y_5 = -\eta\delta_7$
$\Delta \mathrm{w}_{30} = \eta\delta_3 y_0$
$\Delta \mathrm{w}_{31} = \eta\delta_3 y_1$
$\Delta \mathrm{w}_{32} = \eta\delta_3 y_2 = -\eta\delta_3$
$\Delta \mathrm{w}_{40} = \eta\delta_4 y_0$
$\Delta \mathrm{w}_{41} = \eta\delta_4 y_1$
$\Delta \mathrm{w}_{42} = \eta\delta_4 y_2 = -\eta\delta_4$