Part 3

$$\frac{\partial E}{\partial w} = (z - t)\, z(1 - z) * w$$

① $(.7020 - 0)\ .7020(1 - .7020) * .05$

node c1 $= .0072$

$(.7020 - 0)\ .7020(1 - .7020) * .40$

node c2 $= .0206$

$= \boxed{-0.0134}$

$.7020(1 - .7020) = .209196$

$-.0134 \cdot .209196 \cdot .15 = \boxed{-.0042048}$

Part 2

$\frac{\partial E}{\partial BW_3}$ $(z - t)\, z(1 - z)$

$(.5934 - 0)\ .5934(1 - .5934)$

$.5934 \cdot (.59344)(.4066)$

$= \boxed{.1431734}$

Part 4

$\frac{\partial E}{\partial BW_1}$ $(-.0134) * .7020\ (1 - .7020)$

$= .0028$