1)
$$Z_{i}^{j} = \xi_{e} \ a_{i}^{j} \ \omega_{e,j} + b_{i}^{j}$$

(a) $d_{i}^{j} = f(z_{i}^{j}) \ d_{a_{i}^{j}} = f'(z_{i}^{j})$

(b) $d_{i}^{j} = d_{i}^{j} = d_{a_{i}^{j}} \ d_{a_{i}^{j}} = d_{i}^{j} f'(z_{i}^{j})$

(b) $d_{i}^{j} = d_{i}^{j} = \xi_{e} \ d_{i}^{j} \ d_{i}^{j} = d_{i}^{j} \ d_{i}^{j} \$