Question 2

For m-layer, local induced gradient δ_m will be:

$$\delta_{m_1} = \phi'(v_{m_1}) \sum_p \delta_p \, w_{p m_1}$$

$$\delta_{m_2} = \phi'(v_{m_2}) \sum_p \delta_p \, w_{p m_2}$$

$$\delta_{m_3} = \phi'(v_{m_3}) \sum_p \delta_p \, w_{p m_3}$$

$$\delta_{m_4} = \phi'(v_{m_4}) \sum_p \delta_p \, w_{p m_4}$$

$$\delta_{m_5} = \phi'(v_{m_5}) \sum_p \delta_p \, w_{p m_5}$$

$$\delta_{m_6} = \phi'(v_{m_6}) \sum_p \delta_p \, w_{p m_6}$$

For p-layer,

$$\delta_{p_1} = \phi'(v_{p_1}) \sum_h \delta_h \, w_{h p_1}$$

$$\delta_{p_2} = \phi'(v_{p_2}) \sum_h \delta_h \, w_{h p_2}$$

$$\delta_{p_3} = \phi'(v_{p_3}) \sum_h \delta_h \, w_{h p_3}$$

$$\delta_{p_4} = \phi'(v_{p_4}) \sum_h \delta_h \, w_{h p_4}$$

$$\delta_{p_5} = \phi'(v_{p_5}) \sum_h \delta_h \, w_{h p_5}$$

For h-layer,

$$\delta_{h_1} = \phi'(v_{h_1}) \, \Sigma \, \delta_f \, w_{fh_1}$$

$$\delta_{h_2} = \phi'(v_{h_2}) \, \Sigma \, \delta_f \, w_{fh_2}$$

$$\delta_{h_3} = \phi'(v_{h_3}) \, \Sigma \, \delta_f \, w_{fh_3}$$

$$\delta_{h_4} = \phi'(v_{h_4}) \, \Sigma \, \delta_f \, w_{fh_4}$$

For f-layer,

$$\delta_{f_1} = e_{f_1} \, \phi'(v_{f_1})$$

$$\delta_{f_2} = e_{f_2} \, \phi'(v_{f_2})$$

$$\delta_{f_3} = e_{f_3} \, \phi'(v_{f_3})$$