The output of node k for the network with hidden layer activation function f has the form: $f \qquad f \qquad M \qquad f \qquad f \qquad \sum_{i=1}^{r} \beta_{ij} \times_{i} \sum_{j=1}^{r} \beta_{ij} \times_{i} \sum_$

6 - linear fr.

$$= \int_{0\kappa}^{f} \int_{0}^{\pi} \int$$

=>
$$y_{k}^{f} = \frac{f}{dok + 2} \frac{M}{2} \frac{f}{dj_{k}} \left[2g(2h_{j}) - 1 \right]$$

$$= \frac{M}{2} \frac{f}{2 d_{jk}} g(2h_{j}) + \left[d_{0k} - \frac{M}{2} d_{jk} \right]$$

$$j=1$$

$$j=1$$

The output node k for the network with hidden layer activation function g has the form:

For output is equivalent
$$(=)$$
 $y_k = y_k$

20=1 6(W=4 Question 2 input-layler / Frm hidden-laylen For kth hidden unit,

$$\frac{g(\beta_{ok} + \sum_{i \neq j} \beta_{ik} \times \kappa) = g(\beta_{ok} + \sum_{i \neq j} \beta_{ik})}{2} = \frac{e^{\beta_{ok}} \beta_{ok}}{2} = \frac{e^{\beta_{ok}} \beta_{ok}}{2} = \frac{e^{\beta_{ok}} \beta_{ok}}{2} + e^{\beta_{ok}} - e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} - e^{\beta_{ok}} \beta_{ok}} = \frac{e^{\beta_{ok}} \beta_{ok}}{2} + e^{\beta_{ok}} - e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} - e^{\beta_{ok}} \beta_{ok}} = \frac{e^{\beta_{ok}} \beta_{ok}}{2} + e^{\beta_{ok}} - e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} - e^{\beta_{ok}} \beta_{ok}} = \frac{e^{\beta_{ok}} \beta_{ok}}{2} + e^{\beta_{ok}} - e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok} + e^{\beta_{ok}} + e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok} + e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok}} + e^{\beta_{ok}} \beta_{ok} + e^{\beta_{ok}} \beta_{ok}} +$$

where Br = (B2k, -, Brk).

$$\frac{\exp\left\{\beta_{0k}\right\}}{1+\exp\left\{\beta_{0k}\right\}} = \frac{1}{1+\exp\left\{\beta_{0k}\right\}}$$

$$= \frac{1}{1+\exp\left\{\beta_{0k}\right\}} = \frac{1}{1+\exp\left\{\beta_{0k}\right\}}$$

$$= \frac{1}{1+\exp\left\{\beta_{0k}\right\}}$$

$$= \frac{1}{1+\exp\left\{\beta_{0k}\right\}}$$

$$= \frac{1}{1+\exp\left\{\beta_{0k}\right\}}$$

$$= \frac{1}{1+\exp\left\{\beta_{0k}\right\}}$$

$$\Rightarrow \left(\frac{1}{1+\exp\left\{\beta_{0k}\right\}} - 1 \Rightarrow -x^{T}\beta_{K}\right)$$

$$\Rightarrow \left(\frac{1}$$

$$\langle f | x \beta k \rightarrow 0 \rangle = \frac{x^2 \beta k}{1 + \exp \{\beta k \}} < 1$$

$$= > \left(\frac{1}{1 - \frac{x^{T} \beta \kappa}{e \times p \left(\beta_{0} \kappa^{2}\right)}}\right) \approx 1 + \frac{x^{T} \beta \kappa}{e \times p \left(\beta_{0} \kappa^{2}\right)}$$

$$= 3 \left(\beta_{0} k + x^{2} \beta_{R} \right) \approx 4 \exp \left\{ \beta_{0} k \right\}$$

$$= 2 \left(\beta_{0} k + x^{2} \beta_{R} \right) \approx 4 \exp \left\{ \beta_{0} k \right\}$$

linear for of x.