(A):
$$\lambda_1 = 0 \times 2.5 + |x| + |x|.5 = 2.5$$

$$\beta(\lambda_1) = \frac{1}{1+e^{2.5}} \approx 0.924$$

$$\lambda_2 = 0 \times (-|.5|) + |x(-3|) + |x| = -1$$

$$\beta(\lambda_2) = \frac{1}{1+e} = 0.2689$$

$$\lambda_3^2 = -1 + 0.9241 + 0.5 \times 0.2689 = 0.0586$$

$$\beta(\lambda_3) = 0.5146$$

(b)
$$E' = y - 0 = 1 - 0.514b = 0.4854$$
 $\Delta wgb = 0.1 \times 1 \times 0.4854 \times 0.514b \times 0.4854 = 0.012$
 $\Delta wgh_1 = 0.1 \times 0.9241 \times 0.4854 \times 0.514b \times 0.4854 = 0.012$
 $\Delta wgh_2 = 0.1 \times 0.2689 \times 0.4854 \times 0.514b \times 0.4854 = 0.0033$
 $\Delta whib = 0.1 \times 1 \times 0.9241 \times 0.0759 \times 1 \times 0.4854 \times 0.514b \times 0.4854 = 0.000899$
 $\Delta whix_1 = 0.1 \times 0.000941 \times 0.0759 \times 1 \times 0.4854 \times 0.514b \times 0.4854 = 0.000899$
 $\Delta whix_2 = 0.1 \times 1 \times 0.9241 \times 0.0759 \times 1 \times 0.4854 \times 0.514b \times 0.4854 = 0.000849$
 $\Delta wh_2 = 0.1 \times 1 \times 0.2689 \times 0.7311 \times 0.5 \times 0.4954 \times 0.514b \times 0.4854 = 0.000849$
 $\Delta wh_2 = 0.1 \times 1 \times 0.2689 \times 0.7311 \times 0.5 \times 0.4954 \times 0.4854 = 0.00019$
 $\Delta wh_2 = 0.1 \times 1 \times 0.2689 \times 0.7311 \times 0.5 \times 0.4954 \times 0.4854 = 0.00119$
 $\Delta wh_2 = 0.1 \times 1 \times 0.2689 \times 0.7311 \times 0.5 \times 0.4954 \times 0.4854 = 0.00119$
 $\Delta wh_3 = 0.1 \times 1 \times 0.2689 \times 0.7311 \times 0.5 \times 0.4954 \times 0.4854 = 0.00119$
 $\Delta wh_3 = wgh_3 + \Delta wgh_3 = 0.0929$
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