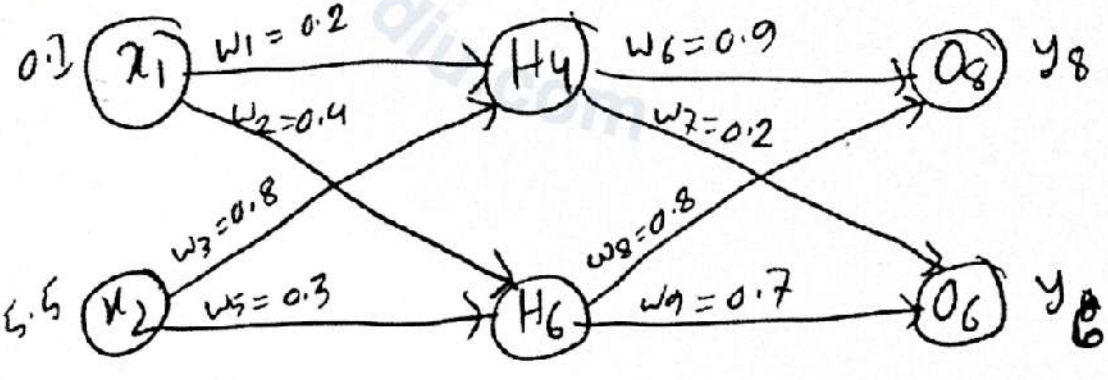
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Quiz-3

Course Title: Artificial Intelligence

Time: 30 minutes

1	**Knowledge Base (KB):** I. $A \rightarrow (B \wedge C)$ II. $(B \rightarrow C) \vee (C \rightarrow B)$ III. $\neg C \rightarrow \neg A$ IV. $A \vee B$ **Given Statement:** $\alpha = B$ Construct the truth table for A, B, and C. Then determine whether KB entails α.	[8]
3	 Consider the activation function as sigmoid. Apply a forward pass and find the value of y8 and y6.	[7]

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