

Exercise 1.3

The modified requirements can be expressed as

$$y_2(t) = \{x_2(t-3) \text{ AND } x_2(t-2)\} \text{ AND } x_2(t-1).$$

The requirement for y_1 remains unchanged:

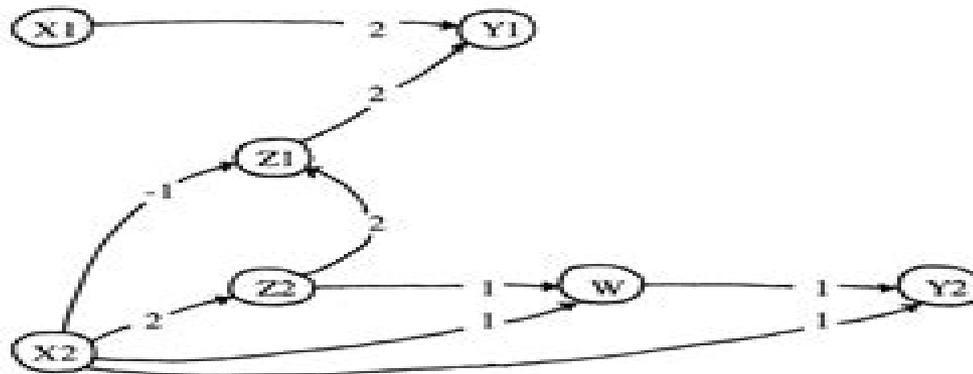
$$y_1(t) = x_1(t-1) \text{ OR } \{x_2(t-3) \text{ AND NOT } x_2(t-2)\}.$$

The network is modified by the addition of a hidden unit, W , such that

$$\begin{aligned} w(t) &= x_2(t-1) \text{ AND } x_2(t-1) \\ &= x_2(t-2) \text{ AND } x_2(t-1) \end{aligned}$$

so that

$$y_2(t) = w(t-1) \text{ AND } x_2(t-1).$$



Exercise 1.4

If heat is applied, heat will be perceived one time step later and will continue to be perceived until one time step after the heat is removed.

If cold is applied for one time step and removed, heat will be perceived two time steps later, but only for one time step.

If cold is applied for two or more steps, cold will be perceived two time steps after the application. This perception of cold will continue until one time step after the cold is removed. Heat will then be perceived for one time step (i.e. two time steps after the cold stimulus is removed).

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