

## WORKSHEET FOR EXERCISES FROM CHAPTER 24

### EXERCISE 24.1

1. What feature is being detected by Hidden Unit 1?
2. How do the connection weights and bias for Hidden Unit 1 permit it to detect this feature? (Remember that when an input unit is “off”, it has an activation value of  $-1$ .)
3. What feature is being detected by Hidden Unit 2?
4. How do the connection weights and bias for Hidden Unit 2 permit it to detect this feature?
5. How are the features being detected by the two hidden units combined in order for the output unit to make the correct response to the four-bit parity problem?