## Physics III Homework Nine

## Due Friday 1 June, 2007

- 1. Krane, Chapter 4, Problem 4.
- 2. A message was sent using the one-time pad shown below. The coded message is QCZDICIJTBEXHNZZ. What is the decoded message? Show at least some of your work to make it clear how you're decoding the message.

3. Alice and Bob are using an EPR experiment to distribute a key for a Vernam cipher using the protocol we discussed in class. Alice observes:

While Bob observes:

What key would Alice and Bob end up using? Was Eve listening in? How can you tell?