- 5.8 We are drawing from 5 items A, B, C, D, E (exactly one of which is defective). Draws are to be made without replacement and with equal probability on items then remaining (sound familiar?). Let D denote selection of a defective item and G denote selection of a non-defective item. We are asked for P(D1 or D2). Use the addition rule and "order of the deal does not matter" to intuit P(D2).
- 5.12 The problem is about conditional probability (not independence as I indicated). If E goes out of business they want you to think of the probabilities of suppliers A, B, C, D being the conditional probabilities conditional on E going out of business. These would be (for A, B, C, D respectively)

 .2/.9 .25/.9 .15/.9 .3/.9

Actually, I dispute the assumption that the conditional probabilities would apply in this case but we'll go ahead and use them anyway.

Why might the conditional probabilities NOT apply? Perhaps supplier E is "in the family" as is supplier C. With E out of business perhaps C would be more likely than .15/.9 to get the bid since some or all of the support for E could shift to C.

5.14 I will go over this in class tomorrow, 9-14-07. Here is the relevant tree

