```
a) True
   b) False
   c) True
   d) False
   e) True
2.
   a) P(A=true, B=false, C=false, D=false, E=false)
      = P(a, 76, 7e, 7d, 7e)
      = Pla) P(nbla) P(ncla) P(ndlnc) P(nelnb,nd)
      = (0.4) \cdot (0.1) \cdot (0.15) \cdot (0.4) \cdot (0.6)
       = 0.0018
   b) P(A=true, B=true, D=false) ?
      = P(a,b, 7d)
       = = = P(a) P(bla) P(cla) P(-dlc) P(elb,-d)
       = P(a) P(bla) & P(cla) P(-dlc) & P(e|b,-d)
       = (0.4)(0.9)(0.25 \cdot 0.25(0.2 + 0.8) + 0.75 \cdot 0.1(0.2 + 0.8))
        = 0.0495
   c) P(D=true | A=true)
      = P(dla)
      = # × P(d,a)
      = \alpha P(a,d)
      = L Z Z Z P(a) P(bla) P(cla) P(dlc) P(elb,d)
      = xP(a) = P(cla) P(dlc) = P(bla) = P(elb,d)
      = ~ (04) (0.25.0.75 (0.9 (0.1+0.9)+0.1 (0.3+0.7)) + 0.76.0.9 (0.9 (0.1+0.9) + 0.1 (0.3+0.7)))
```

= $< (0A) (0.25 \cdot 0.75 + 0.76 \cdot 0.9)$

= $\kappa(0.050626) = \overline{P(a)}(0.050625) = \overline{0.4}(0.050625) = (2.5)(0.050625) = [0.1265625]$