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HW7. Cherry Xu.
1. (a) PCWin=T, Uniform = Crimson, Weather = clear) = 0.18
   (b). PCWeather = clear) = 0.18+0.08 +0.06+0.08 = 0 → 0.4
  (C). P(Uniform=crimson)=0.18+0.08+0.05+0.06+0.07+0.08=0
   (d). P(Win=T) Weather=clear)=P(Win=true / Weather=clear)/P(Weather=clear)
                                     = (0,18+0,08)/0,38= 0.65
   (e). P(Win=T | Weather=cloudy V Weather=rainy) #
     = P(Win=T / (Weather=cloudy V Weather=rainy)/P(Weather=cloudy V Weather=rainy)
      = (0.08+0.1+0.05+0.08)/(0.08+0.1+0.09+0.07+0.05+0.09+0.08+0.04)
     = 0.32/0.6 = 0.53.
2. P(Win 1 Practise=TU Healthy=T) =
 P(Win NPractise = TVHealthy))/P(Practise = TV Healthy)
= P(Practise = TV Healthy | Win) - P(Wm)/P(Practise = TV Healthy).
 = x PCPractise=TV Healthy (Wint). PCWin).
 =x2P(Practise=TVHealthy|Win=T)-P(Win=T),

Practise=TVHealthy|Win=F)-P(Win=F)>

=x(0.8x0.7, 0.3x0.4) = x(0.5b, 0.12) =. (0.82.0.18)
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Breeze [7811, B.1, B1,2, B3,2] Known { 7 P.1., 7 P.1., 7 P.2. P3.1} Frontier Pus, Ps.2} Other & P2.3. P3.3} Question3a

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P(B21B,K) Question3b = xp(p22, B, K) = & 5 P (P22, B, K, UK) = X \(\frac{1}{5}\) \(\frac{1}5\) \(\frac{1}5\) \(\frac{1}5\) \(\frac{1}5\) \(\frac{1}5\) \(\frac{1}5\) \(\fra = XXXP(B|B2, k.f. 0).P(B2, k.f. 0) = 0= P(B1B, K.f) = P(B) P(B) P(B) P(B) P(O) = xP(B2).P(k) = P(f).P(B|B2, K,f) = X'P(B2) I P(F) P(B1B2, Kf) = x' < P(B) = P(f)-P(B(B), k,f), P(B) = P(f)-P(B) B., k,f) = x'< P(P2) (P(B|P2,K,P3,P3).P(P3.P3) P(P2) (P(B)P221K, P(37B2), P(P(3.7P22)) P(P2) (P(B) P22, K. 7/B/32). P(-P13, P32), P(P2)(P(B1P22, K, 7P157P2). P(-1P13,7P32),

ρ(¬βω)(ρ(β)βω, κ, ρβ, βω)·ρ(ρβ, ρβω),
ρ(¬βω)(ρ(β)¬βω, κ, ρβ, ρβω)·ρ(¬βω, ρβω),
ρ(¬βω)(ρ(β)¬βω, κ, ¬ρβ, ρβω)·ρ(¬ρβ, ρβω),
ρ(¬βω)(ρ(β)¬βω, κ, ¬ρβ, ¬ρβω)·ρ(¬ρβ, ¬ρβω))

Given ρχ, y = < 0.2. 0.8)
= κ' < 0.2. (1x02x0.2+1x0.2x0.8+1x0.8x0.2+1x0.8x0.8),
0.8 (1x0.2x0.2+1x0.2x0.8+0x0.8x0.2+0x0.8x0.8)
= κ' < 0.2. 0.16) = < 0.56, 0.44)

Question4

