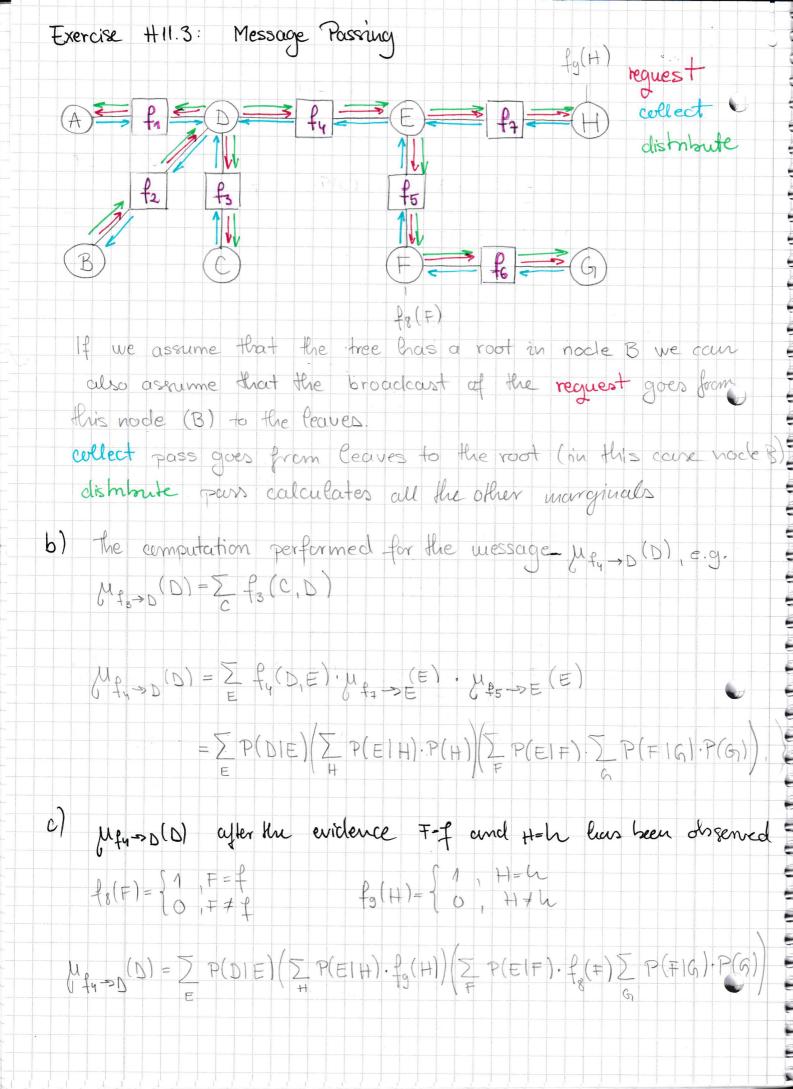


## Bipartite graph of cliques and separaters (D,E)A.D.E.F A.G.H A,F,H A,B,H c) One possible junction tree (A,F)A,D,E,F A,G,H A.B.H d) Running intersection property AF nocle contains A &F and the cliques that it connects ADEF & AFH also contain variables A&F. AH node rentains variables ABH and the cliques that it connects AFH. AGH & ABH also contain variables A&H. BRUNNEN III - Nocle 7 H contains variables 7 8 H and the cliques that it connects AFH and FHC also centain variables T&H.



 $P(D|F=1,H=0)=\sum_{E}P(D|E)(\sum_{H}P(E|H)\cdot f_{3}(H))$  $\left(\sum_{E}P(E|F)\cdot f_{8}(F)\sum_{G}P(F|G)\cdot P(G)\right)$ P(AIF= f, H= h) = \( \bar{D} \) P(AID). \( \bar{D} \) P(B) \( \bar{D} \) P(B) \( \bar{D} \) P(C) Z.P(DIE).ZP(EIH).fg(H)ZP(EIF).fg(F) · 7 P(F/G).P(G) P(BIF=+, H=4)= = = P(BID). = P(DIA). P(A) = P(BIC). P(C) · Z P(D(E) · Z P(E) H) · fg(H) · Z P(EIF) \$8(F) Z P(FIG) P(G)