

1a. Karnaugh Map	1b. Minimal sum of products expression: $F(A,B,C,D) =$
2. Encoder	3. Switching Network (it fits here!)
4. Draw circuits on next page, text answers here. 4b. Result = 4e. (Brief!)	4c(i) Sign bit of A-B gives correct result for $A < B$. Example: A = B = 4c(ii) Sign bit of A-B gives incorrect result for $A < B$. Example: A = B = Reason:

4a(i-iv) Condition Flags, **4c(iii)** Less-Than Flag, **4d** Equals Flag. **Label outputs clearly.**

