**Q1**

1. B+ =BDE
2. CF­+=ABCDEF
3. DF+=ADEF
4. BC+=BCDE
5. ABC+=ABCDE

**Q2**

a): No, since A not in B closure

b): Yes, since E in CF closure

c): No, since B not in DF closure

d): No, since BD closure = BDE, C not in BD closure

e): Yes, since BFC closure = ABCDEF, A in BFC closure

**Q3**

A closure ADCE AD

B closure ABCDE BAD

C closure ADCE DA

AD closure ADCE trivial

Project to ABD: AD, BAD, DA

**Q4**

A B C D E F

1 1 1 1 1 1

2 1 2 1 1 1

Redundancy are highlighted

Since BEF, then know E,F

Since FD, then know D