1: The First Problem

if A → B then through augmentation rule ACDE → BCDE
if ACDE → BCDE is valid in R and it covers entire relational schema then its left hand side is a minimal key (A,C,D,E)
if E → CD then through augmentation rule ABE → ABCD
if ABE → ABCD is valid in R and it covers entire relational schema than its left hand side is a minimal key (A,B,E)

2: The second problem

if AB → DE then through augmentation rule ABC → CDE
if ABC → CDE is valid in R and it covers entire relational schema then its left hand side is a minimal key (A,B,C)
if D → ABC then through augmentation rule DE → ABCE
if DE → ABCE is valid in R and it covers entire relational schema then its left hand side is a minimal key (D,E)

3: The third problem

if A → CE and CE → BD then through transitivity rule A → BD
if A → CE and A → BD then through union rule A → BCDE
if A → BDCE is valid in R and it covers entire relational schema then its left hand side is a minimal key (A)

4: The fourth problem

if A → B then through augmentation rule ACDE → BCDE
if ACDE → BCDE is valid in R and it covers entire relational schema then its left hand side is aminimal key (A,C,D,E)
if B → A then through augmentation rule BCDE → ACDE
if BCDE → ACDE is valid in R and it covers entire relational schema then its left hand side is aminimal key (B,C,D,E)