





R (A, B, C, D, E)

A -> BC

CD -> E

B -> D

E -> A

Minimal Cover: Already in minimal cover

a -> b

$$w/o \{a\}+= a c$$

Thus needed for minimal cover

a -> c

$$w/o \{a\} + = a b d$$

Thus needed for minimal cover

cd -> e

$$\{cd\}+=cdeab$$

$$w/o \{cd\} + = c d$$

Thus needed for minimal cover

 $b \rightarrow d$

$$\{b\}+=b\ d$$

$$w/o \{b\} + = b$$

Thus needed for minimal cover

e -> a

$$\{e\}$$
+ = e a b c d

$$w/o \{e\} + = e$$

Thus needed for minimal cover

9)

R (CSJDPQV)

C -> CSJDPQV

JP -> C

SD -> P

J -> S

R(r1,r2,r3,r4)

r1 = s d p

r2 = j s

r3 = j p c

r4 = c j q v d

Key: c

prime: c

non-prime: s j d p q v



