CSE881 HW7

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Problem 1

(a)

$$< \{r\}, \{p, q\} >$$
$$< \{p, q\}, \{r\} >$$
$$< \{p, q\}, \{p\} >$$
$$< \{p, q\}, \{q\} >$$
$$< \{p\}, \{p, q\} >$$
$$< \{q\}, \{p, q\} >$$
$$< \{p\}, \{r\}, \{p\} >$$
$$< \{p\}, \{r\}, \{q\} >$$
$$< \{q\}, \{r\}, \{p\} >$$
$$< \{q\}, \{r\}, \{q\} >$$

(b)

$$< \{p\}, \{r\}, \{p\} >$$
$$< \{p\}, \{r\}, \{q\} >$$
$$< \{q\}, \{r\}, \{p\} >$$
$$< \{q\}, \{r\}, \{q\} >$$
$$< \{p, q\}, \{r\}, \{p\} >$$
$$< \{p, q\}, \{r\}, \{q\} >$$
$$< \{p\}, \{r\}, \{p, q\} >$$
$$< \{q\}, \{r\}, \{p, q\} >$$
$$< \{p, q\}, \{r\}, \{p, q\} >$$

(c)

$$< \{p,q,r\},\{s\} >$$
$$< \{p,r,s\},\{s\} >$$
$$< \{p\},\{p,q,r\} >$$
$$< \{p\},\{p,q\},\{s\} >$$
$$< \{p,q\},\{s\},\{p\} >$$
$$< \{q\},\{r,s\},\{s\} >$$
$$< \{q,r\},\{s\},\{s\} >$$

(d)

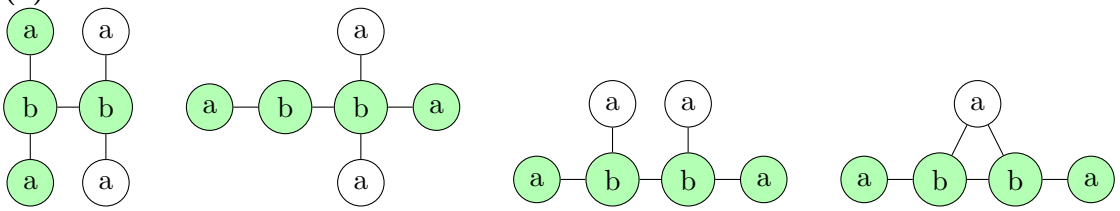
$$< \{p,q,r\},\{s\} >$$

Problem 2

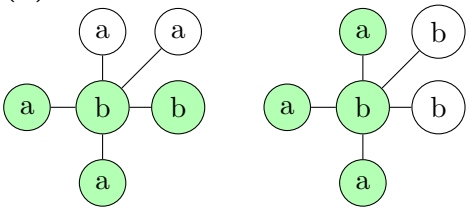
(a)
$w =< \{p\}\{q\}\{r\}\{s\}\{t\} >$
Yes
$w =< \{p\}\{p\}\{q\}\{q\} >$
Yes
$w =< \{p\}\{s\}\{t\} >$
No
$w =< \{p,r\}\{q,r\}\{q,s\} >$
No
(b)
$w =< \{p,q,r,s,t\} >$
Yes
$w =< \{q,r,s,t\}\{q,r\}\{q,s\} >$
Yes
$w =< \{r,s\}\{r,s\}\{r,s\} >$
No
$w =< \{p,q,r\}\{q,r,s\} >$
No

Problem 3

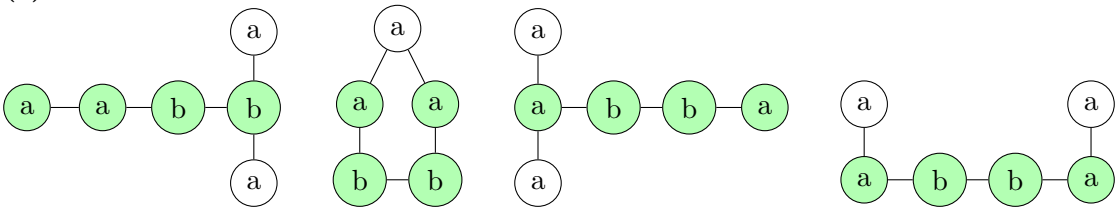
(a)



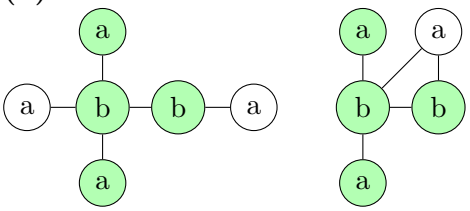
(b)



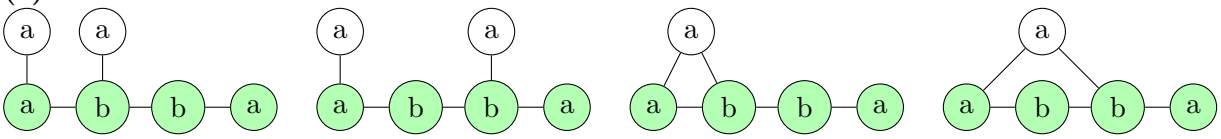
(c)



(d)



(e)



(f)

No candidates.