

$$r_{ijk} = r_{ij}(k-1) \cup r_{ik}(k-1) (r_{kk}(k-1))^* r_{kj}(k-1)$$

| | $k=0$ | $k=1$ |
|-----------|-------------|---|
| r_{11k} | ΣVa | $(\Sigma Va) \cup (\Sigma Va)(\Sigma Va)^* (\Sigma Va)$ |
| r_{12k} | b | $b \cup (\Sigma Va)(\Sigma Va)^* b$ |
| r_{21k} | a | $a \cup a (\Sigma Va)^* (\Sigma Va)$ |
| r_{22k} | ΣVb | $(\Sigma Va) \cup a (\Sigma Va)^* b$ |

$$k=2$$

$$r_{11k} \quad [(\xi \vee a) \vee (\xi \vee a)(\xi \vee a)^* \xi \vee a)] \vee [b \vee (\xi \vee a)(\xi \vee a)^* b] [(\xi \vee b) \vee a(\xi \vee a)^* b]^* [a \vee a(\xi \vee a)^* \xi \vee a]$$

$$r_{12k} \quad [b \vee (\xi \vee a)(\xi \vee a)^* b] \vee [b \vee (\xi \vee a)(\xi \vee a)^* b] [(\xi \vee b) \vee a(\xi \vee a)^* b]^* [(\xi \vee b) \vee a(\xi \vee a)^* b]$$

$$r_{21k} \quad [a \vee a(\xi \vee a)^* \xi \vee a] \vee [(\xi \vee b) \vee a(\xi \vee a)^* b] [(\xi \vee b) \vee a(\xi \vee a)^* b]^* [a \vee a(\xi \vee a)^* \xi \vee a]$$

$$r_{22k} \quad [(\xi \vee b) \vee a(\xi \vee a)^* b] \vee [(\xi \vee b) \vee a(\xi \vee a)^* b] [(\xi \vee b) \vee a(\xi \vee a)^* b]^* [(\xi \vee b) \vee a(\xi \vee a)^* b]$$

Doğru cevap: $R(1,2,2)$: q_1 'den q_2 'e $n=2$ durum oluşturun.

$$R(1,2,2) = [b \vee (\xi \vee a)(\xi \vee a)^* b] \vee [b \vee (\xi \vee a)(\xi \vee a)^* b] [(\xi \vee b) \vee a(\xi \vee a)^* b]^* [(\xi \vee b) \vee a(\xi \vee a)^* b]$$