Regular Type-3 Comme

U-Union

• - Concertante

+
€



at -> Au possible

-> kleen's Clousre + -> Kleen's Positive Closure - Concetitution > Nul/phi _ E/-> Ephilon



Primitive Non-Primitive on combination La Symbol € § (a+b)

Note:

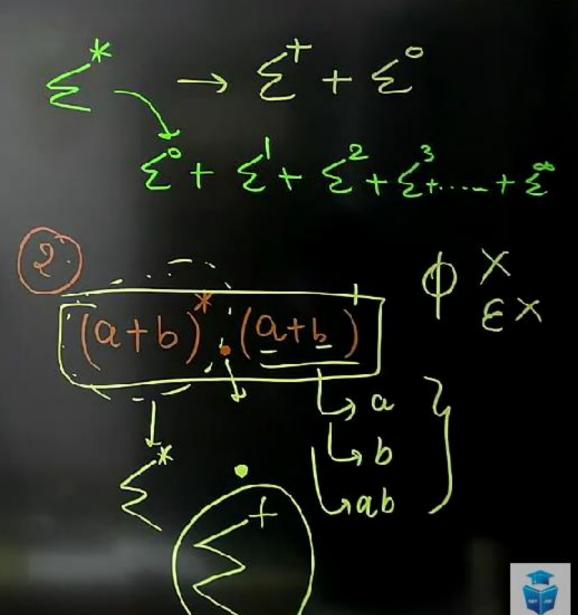
Au RF are said to valid 36 it has been derived from frimitive Exp, \$ Contains basic Opris dike to Union

Union

Union

Union





$$\alpha/\epsilon \leftarrow \alpha + \epsilon = \alpha/\epsilon$$

$$\alpha/\phi \leftarrow \alpha + \phi = \alpha$$

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$$\alpha/\alpha = \alpha$$

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(a+b)* . b nn (abta)*.b L(2) > E, ab, abb b, ababababb bbab + X

h = a + b $L(n) \{a, b\}$ $h = a \cdot b$ $L(n) = \{ab\}$

2=(ab+a).b

(r)

ab.b

au string enting

with b

(ab)0/1/2/3

$$\mathcal{P}_{z} = \alpha^{*}$$

$$\left\{\alpha^{0}, \alpha^{1}, \alpha^{2}, \alpha^{3}, \dots \right\}$$

$$R = a^{\dagger}$$

$$\begin{cases} a', a^2, a^3 & \dots \end{cases}$$

$$R = (a+b)$$

$$E =$$

 $5^* \rightarrow 5^0 + 5^1 + 5^2 + 5^3$ {(a16)* E + a + aa + aaa 60 aba 96 696 669 E, 9, 6, 90, 906, 60, aab

$$(ab)^{*} \neq (a+b)^{*}$$
 $\varepsilon = (ab)^{*} \neq (a+b)^{*}$
 $\varepsilon = (ab)^{*} \neq (a+b)^{*}$
 $\varepsilon = (ab)^{*} \neq (a+b)^{*}$



20:5



Same
$$\begin{cases} R_1 = \varepsilon^* \rightarrow (\varepsilon) \\ R_2 = \varepsilon^* \rightarrow (\varepsilon) \end{cases}$$

$$R_3 = \phi^* \rightarrow (\varepsilon)$$

$$R_4 = \varphi^* \rightarrow (\varepsilon)$$

$$R_4 = \varphi^* \rightarrow (\varepsilon)$$

$$R_4 = \varphi^* \rightarrow (\varepsilon)$$

$$R_5 = \varphi^* \rightarrow (\varepsilon)$$

$$R_7 = ($$





$$(a+b)^{*}= x^{*}$$
 $(a+b)^{*}$
 $(a+b^{*})^{*}$
 $(a+b^{*})^{*}$

$$(a + b)^* \neq (ab)^*$$

$$(a + b)^* \neq (a^* \cdot b)^* \neq (a.b^*)^*$$

$$(a + b)^* = (a^* \cdot b^*)^*$$

$$(a + b)^* = (a^* \cdot b^*)^*$$