

Álgebra de Expressões Regulares

Sejam α e β duas exp. reg.:

$$1. (\alpha | \beta) | \gamma = \alpha | (\beta | \gamma)$$

$$2. (\alpha | \varepsilon) = (\varepsilon | \alpha) = \alpha$$

$$3. \alpha | \beta = \beta | \alpha$$

$$4. \alpha | \alpha = \alpha$$

$$5. (\alpha \beta) \gamma = \alpha (\beta \gamma)$$

$$6. \alpha \varepsilon = \varepsilon \alpha = \alpha$$

$$7. \alpha (\beta | \gamma) = \alpha \beta | \alpha \gamma$$

$$8. (\beta | \gamma) \alpha = \beta \alpha | \gamma \alpha$$

$$9. \alpha^+ = \alpha \alpha^* = \alpha^* \alpha$$

$$10. \alpha^* = \varepsilon | \alpha^+$$

$$11. (\alpha | \varepsilon)^+ = (\alpha | \varepsilon)^* = \alpha^*$$

