

$\text{semiGroup}(P)$	$\Theta:$	[$P(P(Q, R), S)=P(Q, P(R, S))]$
			-- : associative law
$\text{leftMonoid}(P, Q)$	$\Theta:$	[$\text{semiGroup}(P),$ $P(Q, R)=R]$
			-- : left monoid
$\text{rightMonoid}(P, Q)$	$\Theta:$	[$\text{semiGroup}(P),$ $P(R, Q)=R]$
			-- : right monoid
$\text{monoid}(P, Q)$	$\Theta:$	[$\text{leftMonoid}(P, Q),$ $P(R, Q)=R]$
			-- : bilateral monoid
$\text{commMonoid}(P, Q)$	$\Theta:$	[$\text{leftMonoid}(P, Q),$ $P(R, S)=P(S, R)]$
			-- : commutative monoid
$\text{leftDistributes}(P, Q)$	$\Theta:$	[$P(R, Q(S, T))=Q(P(R, S), P(R, T))]$
			-- : left distributive law
$\text{rightDistributes}(P, Q)$	$\Theta:$	[$P(Q(R, S), T)=Q(P(R, T), P(S, T))]$
			-- : right distributive law
-- Boolean axioms (Huntington, 1933, later improved by Robbin):			
$\frac{\begin{array}{c} P \cup Q = Q \cup P \\ \text{semiGroup}(\cup) \end{array}}{P \cup \overline{Q} \cup P \cup \overline{Q} = P}$			
-- associative law, and unit element, for map composition:			
$\text{rightMonoid}(\circ, \iota)$			
-- distributivity of composition over union:			
$\text{rightDistributes}(\circ, \cup)$			
-- convolutorily laws:			
$\begin{array}{l} P^{\sim\sim} = P \\ (P \cup Q)^{\sim} = P^{\sim} \cup Q^{\sim} \\ (P \circ Q)^{\sim} = Q^{\sim} \circ P^{\sim} \end{array}$			
-- Schröder's cycle law:			
$P^{\sim} \circ \overline{P \circ Q} \cup \overline{Q} = \overline{Q}$			