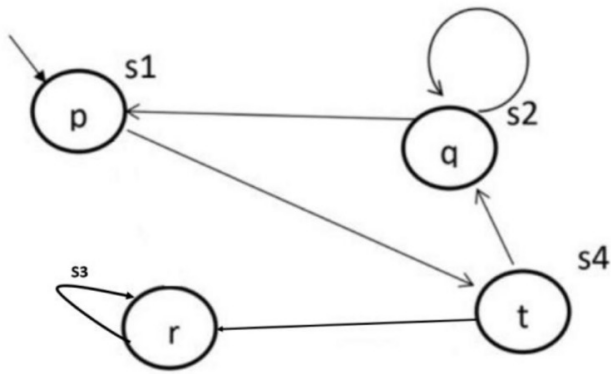


ESERCIZIO 2



1.1 $M, s \models AF(p \text{ or } q)$

	p	q	p or q	AF(...)
s ₁	x		x	x
s ₂		x	x	x
s ₃				
s ₄				

\Rightarrow VALG in s₁ e s₂

1.2 $M, s \models AG(r)$

$$AG(r) \equiv \neg EF \neg r \equiv \neg E(T \cup \neg r)$$

	r	$\neg r$	T	E(...)	$\neg E(...)$
s ₁		x	x	x	
s ₂		x	x	x	
s ₃	x		x		x
s ₄		x	x	x	

\Rightarrow VALG in s₃

1.3 $M, s \models EX(q \text{ or } \epsilon)$

	q	ϵ	q or ϵ	EX(...)
s ₁				x
s ₂	x		x	x
s ₃				
s ₄		x	x	x

\Rightarrow VALG in s₁, s₂, s₄

1.4 $M, s \models AF(\neg q)$

	q	$\neg q$	AF(...)
s ₁		x	x
s ₂	x		
s ₃		x	x
s ₄		x	x

\Rightarrow VALG in s₁, s₃, s₄