$s \succ t \Rightarrow C[s] \succ C[t]$
contexts

$s \succ t \Rightarrow s\sigma \succ t\sigma$
substitutions

closed under

$s \not\succ s$
transitive

$s > t > u \Rightarrow s > u$
irreflexive

rewrite relation

$>$
proper order

$(s_i R s_{i+1})_i$ is finite
well-founded

$C[s] \succ s$
subterm property

rewrite order

well-founded order

simplification order $\cdots\!\!\rightarrow$ reduction order

Figure 1: Proper orders on terms

$s \sim s$
reflexive

$s \geq t \geq u \Rightarrow s \geq u$
transiitve

$s \sim t \Leftrightarrow t \sim s$
symmetric

preorder

$s \geq t, s \neq t \Rightarrow t \not\geq s$
antisymmetric

$\sim$
equivalence

$\geq$
partial order