

SMT theories: Decidability

Theory	Description	Full Fragment	No Quantifiers
T_E	Equality	NO	YES
T_{PA}	Peano arithmetic	NO	NO
T_N	Presburger arithmetic	YES	YES
T_Z	Linear Integers	YES	YES
T_R	Reals (with *)	YES	YES
T_Q	Rationals (without *)	YES	YES
T_{RDS}	Recursive Data Structures	NO	YES
T_{RDS}^+	Acyclic Recursive Data Structures	YES	YES
T_A	Arrays	NO	YES
$T_A^=$	Arrays with extensionality	NO	YES

(source: The Calculus of Computation, Manna and Bradley)