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Varieties of unary semigroups with associate inverse semigroups

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An associate inverse subsemigroup of a regular semigroup S is a subsemigroup T of S containing a least associate of each $s \in S$, in relation to the natural partial order. We show that the class of regular semigroups containing an associate inverse subsemigroup can be considered as a variety of unary semigroups. This variety contains well known and interesting classes of semigroups, such as inverse semigroups and completely simple semigroups.