Peano Arithmetic
$(\forall x) \sim Sx = 0.$
$(\forall x)(\forall y)(Sx = Sy \rightarrow x = y).$
$(\forall x)(x + 0) = x.$
$(\forall x)(\forall y)(x + Sy) = S(x + y)..$ 367-392.
$(\forall x)(x \cdot 0) = 0.$
$(\forall x)(\forall y)(x \cdot Sy) = ((x \cdot y) + x).$
$(\forall x) \sim x < 0.$
$\forall x)(\forall y)(x < Sy \leftrightarrow (x < y \vee x = y)).$

Sentences obtained form the following induction axiom schema by substituting an arithmetical formula for “R” and prefixing universal quantifiers to bind any free variables that result:

$((R0 \wedge (\forall x)(Rx \rightarrow RSx)) \rightarrow (\forall x)Rx)$