$\Omega = <; +^{(2)}, *^{(2)}, 0^{(0)}, 1^{(0)} > \mathfrak{A} = (\omega, +, *, 0, 1)$

$1)(\exists u)x \approx u * u \ \wedge (\exists u)(\exists v)(u * v \approx y \rightarrow (u \approx 1 \vee v \approx 1))$

$2)(\exists u)(x + u \approx y \ \wedge \neg(u \approx 0))$

$3)(\exists u)z * u \approx x \wedge (\exists u)z * u \approx y$

$4)(\forall u)(\neg((\exists v)u * v \approx x \wedge (\exists v)u * v \approx y) \wedge \neg(u \approx 0 \vee u \approx 1))$

$5)(\forall a)(\forall b)(\forall c)(a + b) * c \approx (a + c) * (b + c)$

$6)(\forall u)((\exists v)x + v \approx u) \wedge \neg(\exists a)(\exists b)(a * b \approx u \rightarrow (a \approx 1 \vee b \approx 1)))$