

3.3

$$p1w(J(J(Zero)), J(x), J(J(S(J(Zero))))))$$

$h1 - \text{Natural}(Zero)$

$h2 - \text{Natural}(J(x))$

$p1 - p1w(x, Zero, x)$

$p2 - p1w(x, J(y), J(z))$

$p2, \{x_{-1} = S(J(Zero)),$

$x = y_{-1}$

$z_{-1} = S(J(J(Zero)))\}$

$$p1w(J(J(Zero)), y_{-1}, J(J(J(Zero))))$$

$p2, \{x_{-2} = J(J(Zero)),$

$y_{-1} = S(y_{-2}),$

$z_{-2} = S(J(J(Zero)))\}$

$$p1w(J(J(Zero)), y_{-2}, J(S(Zero)))$$

$p1, \{x_{-3} = J(J(Zero)),$

$y_{-2} = Zero\}$

$$\text{Natural}(J(J(Zero)))$$

$h2, \{x_{-4} = S(Zero)\}$

$$\text{Natural}(S(Zero))$$

$h2, \{x_{-5} = Zero\}$

$$\text{Natural}(Zero)$$

$\{p\}$

$\{true\}$

$x = S(Zero)$

$p2, \{x_{-3} = J(J(Zero)),$

$y_{-2} = S(y_{-3})$

$z_{-3} = S(Zero)\}$

$$p1w(J(J(Zero)), y_{-3}, J(Zero))$$

$p2, \{x_{-4} = S(J(Zero)),$

$y_{-3} = S(y_{-4})$

$z_{-4} = Zero\}$

$$p(J(J(Zero)), y_{-4}, Zero)$$

$\{false\}$