

Problem 04: n -th Power

Calculate the n th power of x .

$$\begin{aligned} A &= \mathbb{Z} \times \mathbb{N}_0 \times \mathbb{Z} \\ &\quad x \quad n \quad y \\ B &= \mathbb{Z} \times \mathbb{N}_0 \\ &\quad x' \quad n' \\ Q &= (x' = x) \wedge (n' = n) \\ R &= Q \wedge (y = x^n) \end{aligned}$$