

$$\text{PA} \vdash \forall x \forall y [\hat{y} + x = x + \hat{y}]$$

[illegible]

$$\text{IND} \quad \frac{[\delta + x = x + \delta] \quad \delta_A x_A \quad \overline{[(\delta + x)s = (x)s + \delta] \quad \delta_A x \leftrightarrow [\delta + x = x + \delta] \quad \delta_A x_A \vee [\delta + 0 = 0 + \delta] \quad \delta_A}}{}$$