

Exercise set 10

$$\begin{array}{c}
 \frac{[x = z]2 \quad [-x = y]3}{\frac{-z = y}{\frac{\perp}{\frac{\perp}{\text{RAA4}}}}} \quad \frac{[y = z]4}{\frac{z = y}{\perp}} \\
 \frac{\perp}{\perp} \\
 \frac{[-(x = z \text{ or } -y = z)]1}{\frac{\perp}{\frac{\perp}{\text{RAA2}}}} \\
 \frac{\perp}{\perp} \\
 \frac{[-(x = z \text{ or } -y = z)]1}{\frac{\perp}{\frac{\perp}{\text{RAA1}}}} \\
 \frac{\perp}{\perp} \\
 \frac{-x = z \text{ or } -y = z}{\frac{-x = y \rightarrow (-x = y \text{ or } -y = z)}{\frac{\perp}{\text{--I 3}}}}
 \end{array}$$

2.10.4  $Axyz(-x = y \rightarrow (-x = z \text{ or } -y = z))$

$$\begin{array}{c}
 \frac{[\text{P}(a) \ \& \ \text{P}(b) \ \& \ \text{P}(c)]}{\frac{\text{P}(a)}{\frac{[\text{x} = a]}{\frac{\text{P}(x)}}}} \quad \frac{[\text{P}(a) \ \& \ \text{P}(b) \ \& \ \text{P}(c)]}{\frac{\text{P}(b)}{\frac{[\text{x} = b]}{\frac{\text{P}(x)}}}} \quad \frac{[\text{P}(a) \ \& \ \text{P}(b) \ \& \ \text{P}(c)]}{\frac{\text{P}(c)}{\frac{[\text{x} = c]}{\frac{\text{P}(x)}{\text{P}(x)}}}}
 \end{array}$$

2.10.6

$$\frac{\frac{[\text{Ax P}(x)]}{\text{P}(a)} \quad \frac{[\text{Ax P}(x)]}{\text{P}(b)} \quad \frac{[\text{Ax P}(x)]}{\text{P}(c)}}{\frac{\text{P}(a) \ \& \ \text{p}(b) \ \& \ \text{P}(c)}{\frac{\text{P}(x) \leftrightarrow (\text{P}(a) \ \& \ \text{P}(b) \ \& \ \text{P}(c))}{\frac{\text{Ax P}(x) \leftrightarrow (\text{P}(a) \ \& \ \text{p}(b) \ \& \ \text{P}(c))}{\perp}}}}$$