Thomas Forster

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Contents

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 \begin{array}{l} \{\neg p(x,y), r(x,y), q(x), \neg p(y,x)\} \ 1 \\ \{\neg r(x,y), \neg q(y), r(y,x)\} \ 2 \\ \{r(x,y), \neg q(x), \neg q(y)\} \ 3 \\ \{p(a,b)\} \ 4 \\ \{p(b,a)\} \ 5 \\ \{\neg r(a,b)\} \ 6 \\ \{r(a,b), q(a)\} \ 7 \ \text{from Clause 1 (with 4 and 5)} \\ \{r(b,a), q(b)\} \ 8 \ \text{Clause 1 (with 4 and 5)} \ \text{and clause 6 then gives us} \\ \{q(a)\} \ 9 \ \text{resolve with 2 to get} \\ \neg r(b,a), r(a,b) \ 10 \\ r(a,a) \ 11 \ \text{from 3 and 9} \end{array}
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References