

1.  $\exists x P(x)$

2.  $\forall x \forall y ((P(x) \wedge P(y)) \rightarrow x = y)$

3.  $\neg P(a)$

4.  $\forall y ((P(a) \wedge P(y)) \rightarrow a = y)$

✓  $\forall$  Elim

2

5.  $\neg P(b)$

6.  $P(a) \wedge P(b)$

✓  $\wedge$  Intro

5,3

7.  $(P(a) \wedge P(b)) \rightarrow a = b$

✓  $\forall$  Elim

4

8.  $a = b$

✓  $\rightarrow$  Elim

6,7

9.  $P(b) \rightarrow a = b$

✗  $\rightarrow$  Intro

8,5

10.  $\forall y (P(y) \rightarrow y = b)$

✗  $\forall$  Intro

9

11.  $P(b) \wedge \forall y (P(y) \rightarrow y = b)$

✓  $\wedge$  Intro

10,5

12.  $\exists x (P(x) \wedge \forall y (P(y) \rightarrow y = x))$

✓  $\exists$  Intro

11

13.  $\exists x (P(x) \wedge \forall y (P(y) \rightarrow y = x))$

✗  $\exists$  Elim

3-12,1

Goals

$\exists x (P(x) \wedge \forall y (P(y) \rightarrow y = x))$

✗

# Language And Proof Of Logic Answer Key

**Robert Engelmores**



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**Handbook of Logic in Artificial Intelligence and Logic Programming: Volume 5: Logic Programming** Dov M. Gabbay, C. J. Hogger, J. A. Robinson, 1998-01-08 The *Handbook of Logic in Artificial Intelligence and Logic Programming* is a multi volume work covering all major areas of the application of logic to artificial intelligence and logic programming The authors are chosen on an international basis and are leaders in the fields covered Volume 5 is the last in this well regarded series Logic is now widely recognized as one of the foundational disciplines of computing It has found applications in virtually all aspects of the subject from software and hardware engineering to programming languages and artificial intelligence In response to the growing need for an in depth survey of these applications the *Handbook of Logic in Artificial Intelligence* and its companion the *Handbook of Logic in Computer Science* have been created The Handbooks are a combination of authoritative exposition comprehensive survey and fundamental research exploring the underlying themes in the various areas Some mathematical background is assumed and much of the material will be of interest to logicians and mathematicians Volume 5 focuses particularly on logic programming The chapters which in many cases are of monograph length and scope emphasize possible unifying themes

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