6.22 Give a formal proof mirroring the informal proof on page 167 of ¬(A ∧ ¬C) from the premises Cube(c) ∨ Dodec(c) and ¬Cube(c). You may apply **Ana Con** to literals in Fitch in establishing ...

6.23 Give an informal proof that might have been used by the authors in constructing the formal proof shown on page 162.

In each of the following exercises, give an informal proof of the validity of the indicated argument. (You should never use the principle you are proving in your informal proof; for example in Exercise 6.24, you should not use DeMorgan in your informal proof.) Once you think to construct a formal proof that mirrors your informal proof as much as possible. Turn in your informal proofs to your instructor and submit the formal proof in the usual way.

6.24
| ¬(A ∧ B)
| ¬A ∨ ¬B

6.25
| A ∨ B
| ¬(¬A ∧ ¬B)

6.26
| A ∨ (B ∧ C)
| ¬B ∨ (¬C ∨ ¬D)
| A ∨ D

6.27
| (A ∨ B) ∧ (C ∨ D)
| (B ∨ C) ∨ (D ∨ E)
| (¬A ∨ ¬E)

In each of the following exercises, you should assess whether the argument is valid. If it is, use Fitch to construct a formal proof. You may use **Ana Con** but only involving literals and ⊥. If it is not valid use Tarski's World to construct a counterexample.

6.28
| Cube(c) ∨ Small(c)
| Dodec(c)
| Small(c)

6.29
| Larger(a, b) ∨ Larger(a, c)
| Smaller(b, a) ∧ ¬Larger(a, c)
| Larger(a, b)

6.30
| ¬(Cube(a) ∧ Cube(b))
| ¬(¬Cube(b) ∨ Cube(c))
| Cube(a)

6.31
| Dodec(b) ∨ Cube(b)
| Small(b) ∨ Medium(b)
| ¬(Small(b) ∧ Cube(b))
| Medium(b) ∨ Dodec(b)

6.32
| Dodec(b) ∨ Cube(b)
| Small(b) ∨ Medium(b)
| Small(b) ∧ Cube(b)
| Medium(b) ∨ Dodec(b)

Proofs without premises

Not all proofs begin with the assumption of premises. This may seem odd, but in fact it is how we use our deductive system to show that a sentence is a logical truth. A sentence that can be proven without any premises at all is necessarily true. Here's a trivial example of such a proof, one that shows that a = a ∨ b = b is a logical truth:

1. a = a	= Intro
2. b = b	= Intro
3. a = a ∨ b = b	∨ Intro: 1, 2

The first step of this proof is not a premise, but an application of = **Intro**. You might think that any proof without premises would have to start with this rule, since it is the only one that doesn't have to cite any supporting step earlier in the proof. But in fact, this is not a very representative example of such proofs. A more typical and interesting proof without premises is the following, which shows that ¬(P ∧ ¬P) is a logical truth:

| 1. P ∧ ¬P |
2. P	∧ Elim: 1
3. ¬P	∧ Elim: 1
4. ⊥	⊥ Intro: 2, 3
5. ¬(P ∧ ¬P)	¬ Intro: 1–4

Notice that there are no assumptions above the first horizontal Fitch bar, indicating that the main proof has no premises. The first step of the proof is the subproof's assumption. The subproof proceeds to derive a contradiction, based on this assumption, thus allowing us to conclude that the negation of the subproof's assumption follows without the need of premises. In other words, it is a logical truth.

When we want you to prove that a sentence is a logical truth, we will use Fitch notation to indicate that you must prove this without assuming any premises. For example the above proof shows that the following "argument" is valid:

Language Proof Logic Answers Key

Richard E. Hodel

Language Proof Logic Answers Key:

    Applied Set Theory and Logic John-Michael Kuczynski,2025-06-12 Applied Set Theory and Logic is a comprehensive guide to the core principles of set theory and mathematical logic with an emphasis on real world applications in computer science engineering and digital systems Bridging rigorous theoretical foundations with practical examples the book explores topics ranging from propositional calculus and predicate logic to modal logic database systems circuit verification and algorithm design Through hundreds of worked examples and exercises readers learn to apply logical reasoning to concrete problems in programming software verification hardware design and information systems Advanced topics include modal logic recursion transitivity Von Neumann and Zermelo ordinals Boolean algebra and formal proof techniques Each chapter highlights the relevance of logic and set theory to contemporary computational systems and digital technologies Suitable for students engineers computer scientists and researchers Applied Set Theory and Logic serves both as a theoretical reference and a practical guide to the logical structures that underlie modern technology   **The Method of Socratic Proofs** Dorota Leszczyńska-Jasion,2025-06-13 This book contains a systematic and formal attempt to model solutions to problems such as Is it possible to prove a question Is it possible to prove something by the use of questions Do the existing paradigms in the logic of questions allow one to combine questions and proofs What are the results in this field In developing answers the book focuses on the applications of the method of Socratic proofs and goes beyond that It starts out with an overview of the leading paradigms issues problems and ready solutions in the logic of questions and places Inferential Erotetic Logic and the method of Socratic proofs against a wider background It then introduces these two methods in more detail and explains how they can be used for classical logic intuitionistic propositional logic and for basic modal logics Next the book deals with issues specific to the field of the logic of questions introducing the tools of Minimal Erotetic Semantics MiES The final chapters describe the translations between proof systems from a Socratic transformation derived in an erotetic calculus into a sequent system   **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

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