Adam Gincel

Professor Engling

CS 135

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Homework 2

* 1. P(0) returns true.
  2. P(4) returns true.
  3. P(6) returns false.
  4. There exists a student who spends more than five hours every weekday in class.
  5. All students spend more than five hours every weekday in class.
  6. There exists a student who does not spend more than five hours every weekday in class.
  7. Not all students spend more than five hours every weekday in class.
  8. ∃x(C(x) ^ D(x) ^ F(x))
  9. ∀x(C(x) v D(x) v F(x))
  10. ∃x(C(x) ^ F(x) ^ ¬D(x))
  11. ¬∀x(C(x) ^ D(x) ^ F(x))
  12. ∃xC(x) ^ ∃xD(x) ^ ∃xF(x)
  13. True
  14. True
  15. True
  16. False
  17. For all X, there exists a Y that is greater than that X.