

1.
  - (a) This is a false statement, because all square matrices are not invertible.
  - (b) This is a false statement, as the det is zero.
  - (c) This is not a valid statement, since the qualifier of “happy” isn’t well-defined. Also, “clap your hands” is not really a conclusion.
  - (d) This is not a valid statement, as “today” is ambiguous.