Answer to the exercise on propositional resolution.
Show by resolution that the following set of clauses is inconsistent (derive empty clause form it):

$$
\begin{gathered}
{[A, B, C],[A, B, \neg C],[A, \neg B, C],[A, \neg B, \neg C],} \\
{[\neg A, B, C],[\neg A, B, \neg C],[\neg A, \neg B, C],[\neg A, \neg B, \neg C]}
\end{gathered}
$$

Answer.

1. $[A, B]$ from $[A, B, C],[A, B, \neg C]$.
2. $[A, \neg B]$ from $[A, \neg B, C]$, $[A, \neg B, \neg C]$.
3. $[A]$ from 1,2 .
4. $[\neg A, B]$ from $[\neg A, B, C],[\neg A, B, \neg C]$.
5. $[\neg A, \neg B]$ from $[\neg A, \neg B, C],[\neg A, \neg B, \neg C]$.
6. $[\neg A]$ from 4,5 .
7. [] from 3,6 .
