Homework #3

Due date: This homework is due at 11:59 PM on Monday June 14.

Problems: The collected problems are:

$$
\begin{array}{ll}
3.4: & \#1,\ 4 \\
3.5: & \#2,\ 10 \\
4.2: & \#6,\ 7 \\
4.3: & \#6,\ 13 \\
4.4: & \#7,\ 11 \\
4.5: & \#2,\ 7 \\
4.6: & \#1,\ 2
\end{array}
$$

Reminder: Your proofs should read like essays and convince someone who does not already know the proof. Please write clearly.