Determine the truth-value of compound propositions.

1.1. Given that $(q \lor r) \to \sim p$ is false and $q$ is false, determine the truth-value of $r \land p$
   Explain your reasoning.

1.2. What is the truth value of $[p \to (q \lor r)] \land \sim p$, when $p$ is TRUE, $q$ is TRUE, $r$ is FALSE.

1.3. What is the truth value of $[p \land (q \to \sim r)] \lor \sim q$, when $p$ is FALSE, $q$ is TRUE, $r$ is TRUE.

1.4. What is the truth value of $[\sim q \lor (p \to q)] \land (q \leftrightarrow p)$, when $p$ is TRUE, $q$ is FALSE.