30. If each of the statements $p \to \neg q$, $\neg r \to q$ and p are true, then which of the following is NOT true?

(2) r is true

(4) $r \land \sim q$ is false (3) $r \rightarrow q$ is false

- 30. (4) Since p is true and $p \rightarrow \sim q$ is also true, therefore $\sim q$ is true.
 - Also, since $\sim r \rightarrow q$ is true, $\sim r$ is false and so, r is true.

From above $r \to q$ is false.