10 Express formally and succinctly that exactly one of three statements is true.

After trying the question, scroll down to the solution.
§

\[ a \land \neg b \land \neg c \lor \neg a \land b \land \neg c \lor \neg a \land \neg b \land c \]

or

\[ a = (b = c) \land \neg (a \land b \land c) \]

or

\[ (a = b) = c \land \neg (a \land b \land c) \]

or

\[ a = (b = c) \land \neg (a = b = c) \]

or

\[ (a = b) = c \land \neg (a = b = c) \]