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

After trying the question, scroll down to the solution.

§ $a \wedge \neg b \wedge \neg c \ \vee \ \neg a \wedge b \wedge \neg c \ \vee \ \neg a \wedge \neg b \wedge c$

or $a=(b=c) \ \wedge \ \neg(a \wedge b \wedge c)$

or $(a=b)=c \ \wedge \ \neg(a \wedge b \wedge c)$

or $a=(b=c) \ \wedge \ \neg(a=b=c)$

or $(a=b)=c \ \wedge \ \neg(a=b=c)$