$Assumptions = And @@ ((# \in Reals) & /@ {a,b,c,x,y})$

 $\texttt{a} \, \in \, \texttt{Reals} \, \&\& \, \, \texttt{b} \, \in \, \texttt{Reals} \, \&\& \, \, \texttt{c} \, \in \, \texttt{Reals} \, \&\& \, \, \texttt{y} \, \in \, \texttt{Reals} \,$