

$\text{NilQ}[\mathbf{z}_{qu}] = \text{NilQ}[\mathbf{Z}_{qu}] = \text{NilQ}[X_{qu}] = \text{NilQ}[\mathbf{Y}_{qu}] = \text{NilQ}[\mathbf{x}_{qu}] = \text{NilQ}[\mathbf{y}_{qu}] = \text{True}; \text{NilQ}[\mathbf{a}_{qu}] = \text{False};$

$\text{NilQ}[\mathbf{b}_{qu}] = \text{False};$

$\text{PotQ}[\mathbf{c_} * \mathbf{x_QU}] := \neg \text{NilQ}[\mathbf{x}]; \quad (* \text{ Potent } Q *)$

$\text{NilQ}[\mathbf{c_} * \mathbf{x_QU}] := \text{NilQ}[\mathbf{x}];$

$\text{PotQ}[\mathbf{x_Plus}] := \text{And @@ (\text{PotQ} /@ (\text{List @@ } \mathbf{x})) ;$

$\text{NilQ}[\mathbf{x_Plus}] := \text{And @@ (\text{NilQ} /@ (\text{List @@ } \mathbf{x})) ;$