

102 Simplify

- (a) $\Sigma ((0,..n) \rightarrow m)$
- (b) $\Pi ((0,..n) \rightarrow m)$
- (c) $\forall ((0,..n) \rightarrow b)$
- (d) $\exists ((0,..n) \rightarrow b)$

After trying the question, scroll down to the solution.

$$\begin{array}{l} \text{(a)} \\ \S \end{array} \quad \begin{array}{l} \Sigma ((0,..n) \rightarrow m) \\ n \times m \end{array}$$

$$\begin{array}{l} \text{(b)} \\ \S \end{array} \quad \begin{array}{l} \Pi ((0,..n) \rightarrow m) \\ m^n \end{array}$$

$$\begin{array}{l} \text{(c)} \\ \S \end{array} \quad \begin{array}{l} \forall ((0,..n) \rightarrow b) \\ n > 0 \Rightarrow b \end{array}$$

$$\begin{array}{l} \text{(d)} \\ \S \end{array} \quad \begin{array}{l} \exists ((0,..n) \rightarrow b) \\ n > 0 \wedge b \end{array}$$