

3.

$$A = \begin{array}{|c|c|c|c|c|c|c|c|} \hline 1 & 1 & 0 & 1 & 0 & 1 & 0 & 1 \\ \hline \end{array}$$

$$B = \begin{array}{|c|c|c|c|c|c|c|c|} \hline 0 & 1 & 1 & 1 & 0 & 0 & 0 & 1 \\ \hline \end{array}$$

$$(a) \text{ AND } (xy) = \begin{array}{|c|c|c|c|c|c|c|c|} \hline 0 & 1 & 0 & 1 & 0 & 0 & 0 & 1 \\ \hline \end{array}$$

$$(b) \text{ XNOR } (xy + x'y') = \begin{array}{|c|c|c|c|c|c|c|c|} \hline 0 & 1 & 0 & 1 & 1 & 0 & 1 & 1 \\ \hline \end{array}$$

$$(c) \text{ NOT A } (x') = \begin{array}{|c|c|c|c|c|c|c|c|} \hline 0 & 0 & 1 & 0 & 1 & 0 & 1 & 0 \\ \hline \end{array}$$