

1. $X = X_1X_0$ and $Y = Y_1Y_0$ are 2-bit binary numbers. The Boolean function S that satisfies the condition “If $X > Y$, then $S = 1$ ”, in its minimized form, is
- (a) $X_1Y_1 + X_0Y_0$
 - (b) $X_1\bar{Y}_1 + X_0\bar{Y}_0\bar{Y}_1 + X_0\bar{Y}_0X_1$
 - (c) $X_1\bar{Y}_1X_0\bar{Y}_0$
 - (d) $X_1Y_1 + X_0\bar{Y}_0Y_1 + X_0\bar{Y}_0\bar{X}_1$