Q1. Draw the logic diagram and truth table of the expression —

(a) $X = A + B + \overline{CD}$ (b) $f = \overline{AB} + A\overline{C}$

Q2. Draw a logic diagram that implements:

$$A = (X_1 \odot X_2) \oplus (X_3 \odot X_4) + (X_4 \oplus X_5)$$
$$\odot (X_6 \oplus X_7)$$