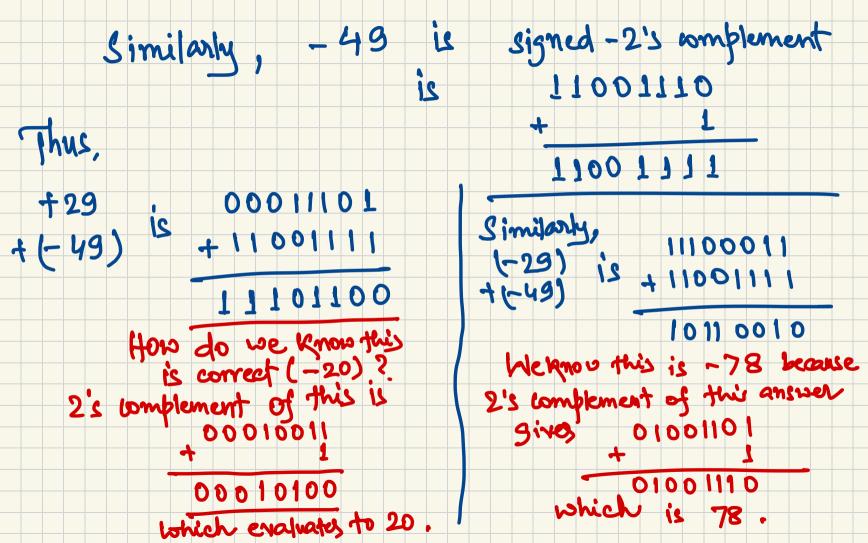
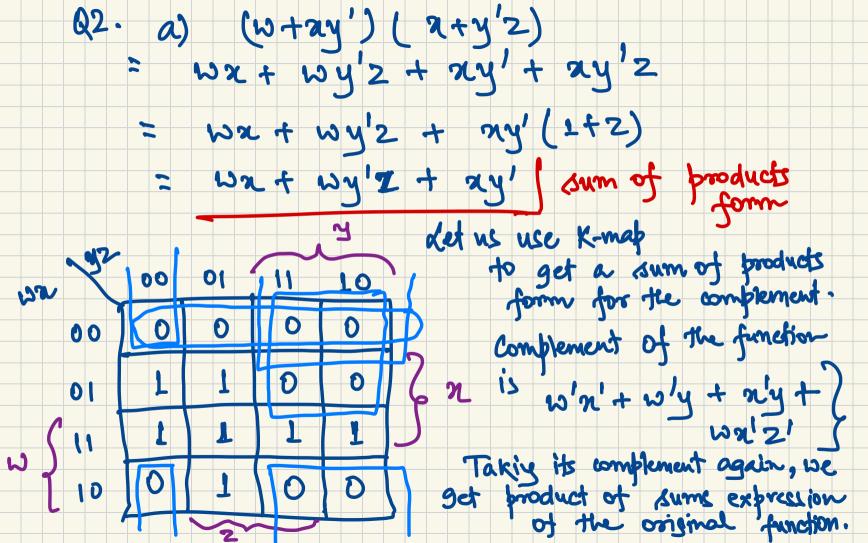
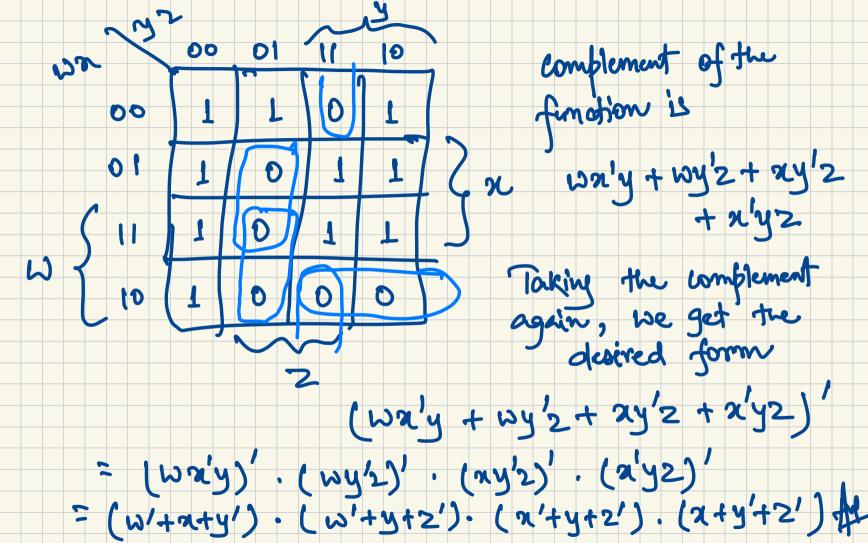
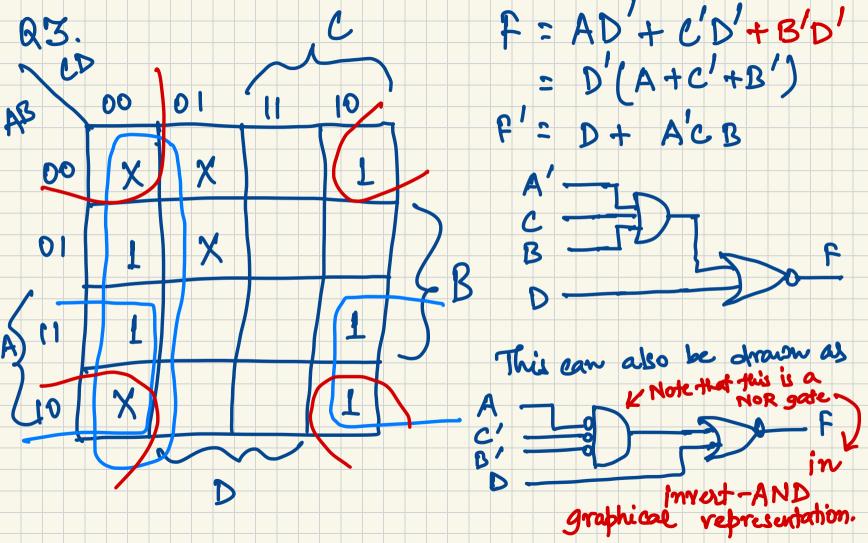
Quiz 1 (Solutions) 00110001 +49 in binary: QI. 00011101 +29 in binary: Signed-2's-complement representation of -29 can be obtained by first taking Signed - 1's complement of -9 (which can be obtained by flipping the bits of +29) and them adding 1. -29 in signed-2's complement is 11100011

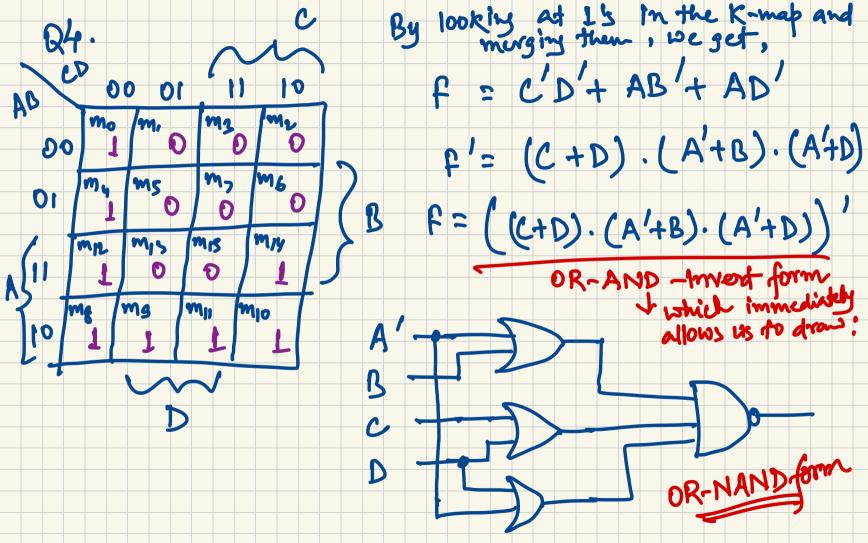




(w'x' + w'y + 2'y + w2'z') $= (\omega'x')' \cdot (\omega'y)' \cdot (x'y)' \cdot (\omega x'z')'$ $= (\omega + \alpha) \cdot (\omega + y') \cdot (\alpha + y') \cdot (\omega' + \alpha + 2)$ Straigarty for part (b) 2y+(w/+y/2')(z'+n'y') = 24 + 121 + 12/24 + 4/24 + 2/4/21 We use K-map to get the complement is sum of products form.







Also, by looking at 0's in the same Kroop and murging them, we get F'= (BD + DA' + CA') F = (BD + DA' + CA') AND-OR-Invert form to draw immediately allows us AND-NOR form AW