CS 350 Lab 4 Andrey Danilkarich 1) (xy+z) a) Minimal DNF $\overline{z}(\overline{XY}) = \overline{z}(\overline{X+Y}) = \overline{z}\overline{X} + \overline{z}\overline{Y}$ b) Equivalent Full DNF $\overline{ZX} + \overline{ZY} = \overline{X(Y+\overline{Y})}\overline{Z} + (X+\overline{X})\overline{Y}\overline{Z}$ $= \overline{X}\overline{YZ} + \overline{X}\overline{YZ} + \overline{X}\overline{YZ} + \overline{X}\overline{YZ}$ $= \overline{X}\overline{Z} + \overline{X}\overline{Y}\overline{Z} + \overline{X}\overline{Y}\overline{Z}$ $\overline{Y} | \overline{X}\overline{Y}(\overline{X}\overline{Y}+\overline{Z})| (\overline{X}\overline{Y}+\overline{Z})| \overline{X}\overline{Y}\overline{Z} + \overline{X}\overline{Y}\overline{Z} + \overline{X}\overline{Y}\overline{Z} + \overline{X}\overline{Y}\overline{Z}$ 0 00







