Aista Muhammad Nawaz 201-0921 DLD LAB MANUALOY Section 2E2 08-04-21

Question o)

Convert to Pos form wring distributive law

Ouestion 02

convert to Pos form using De Morganis laws

$$= \frac{(b'+d) \cdot (\alpha'+c+d)}{(b'+d') \cdot (\alpha'+c+d)}$$

0

$$= \chi y'(z+21) + \chi zig + y') + \chi'(x+z)(z+z) + \zeta z(x+z)$$

$$= \chi y'(z+21) + \chi zig + y') + \chi'(x+z)(z+z) + \zeta z + \zeta$$

14, ci). 4 · minterm of E:-EZm= E= mm1 + m2 + m4 + m6 E= ZYZ + XYZ + XYZ + XYZ · Mintermof F: F= 2m=F= X12 + X12 + X12 + X12 F=Em= F= mo+ my+ my+ my . Maxterm of E:-· Marterm of F .-F= (x+y+2). (x+y+2). (x+y+2). (x+y+2) F=ITM F= m, mg, mg, mc cii). $E = \sqrt{12} + \sqrt{12} + \sqrt{12} + \sqrt{12}$ = XTZ + XYZ + XZ (T+4) $E \leq m = \sqrt{12 + \sqrt{2} + \sqrt{2}}$ $= \sqrt{(12 + \sqrt{2}) + \sqrt{2}}$ = x((y2+y)(y2+2)) + x2 $= \overline{\chi}(\overline{\gamma+\gamma})(\overline{\gamma+z})(\overline{\gamma+z})(z+\overline{z})$ + χz = X (()+2) (+2) F= XVZ + X 12 + XVZ + XVZ

 $= \overline{\chi}_{2}(\overline{\gamma}_{+y}) + \chi \overline{\chi} \overline{z} + \chi \gamma z$

2 = F= XZ+XYZ+XYZ

Scanned with CamScanner

(18) Find most terms from the following min torms and evente its expression. Also, implement the resultant expression on logic works. F(x, y, 2) = &m (1, 3, 6, 7). F (xjt,z) = = m(0,2,4,5) Flitz) = Tm (0,24,5) = (Mo) (m2) (My) (mo) = (x+y+z)(x+y=z)(a+y+2)(a+y F(2/1/2)=(x+4+2)(x+y+2)(2+4+2)(x+y+2) Cl 6, FCAB, () ~ TTM (0,3, 4,5,7) FCABC) = TN(1,2,6) F CAB, C) = \$ m(1,2,6) = m,+m2+mg FLABIC)= XYZ + XYZ+ XYZ <u>Q</u>2 F (X, 4,2) = = (0,1,2,4,6) F(x,y,2)2 蛋红(3,5,7) F (x,4,2) = Tm (3,8,7) = (M3)(M5)(M7) T (3577) = (x +4+2) (x+4+2) (x+4+2) (x+y+2) (s Expression for F(x, 4, 2) = Eml 0,1,74,8) = motm, +m2+m4+m2 = Xx2+ xx2+ xx2+ xx2+ xx2+xx2

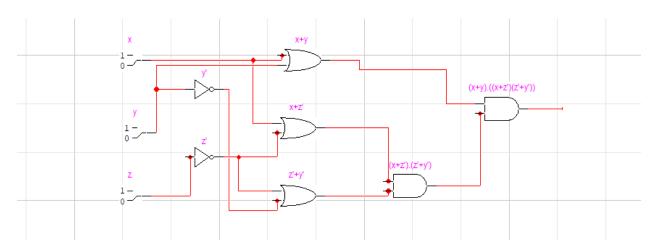
Is Expression for

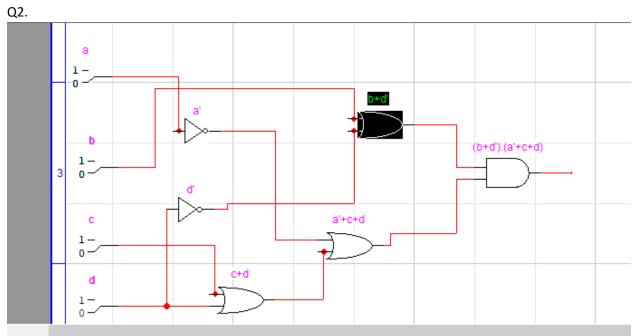
min tams.

$$\frac{F}{Q8} \cdot \left(\left(\frac{4}{B} \right)_{1} + C \right) \cdot C$$

Truth table

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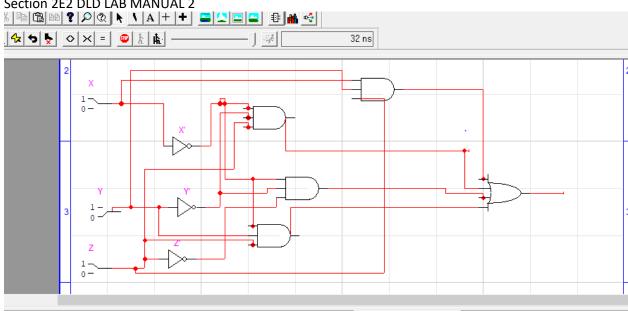




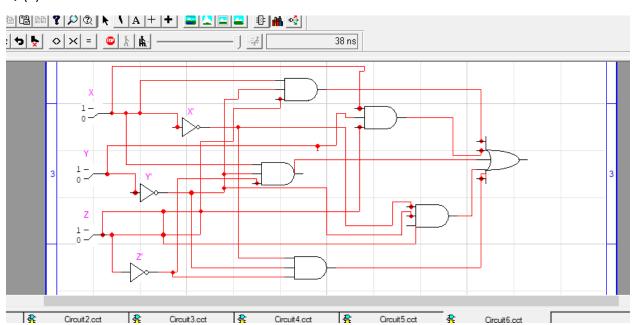
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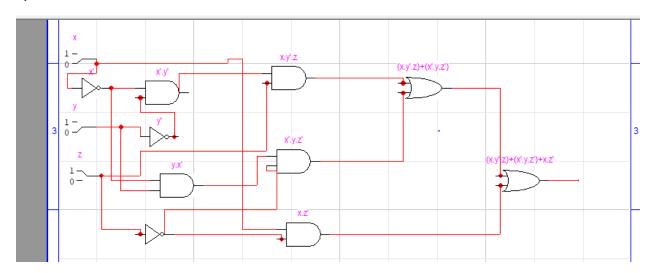
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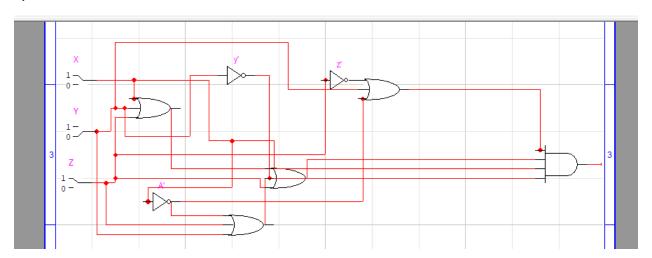
Q3(b).



Q4.



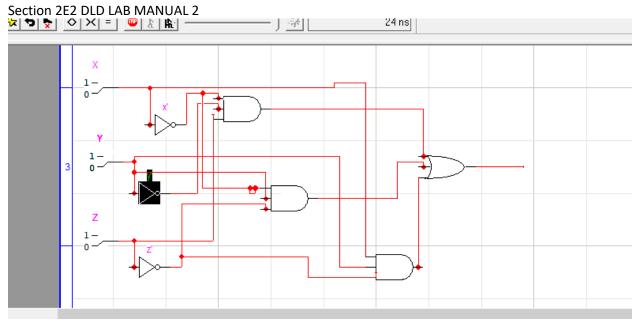
Q5



Q6

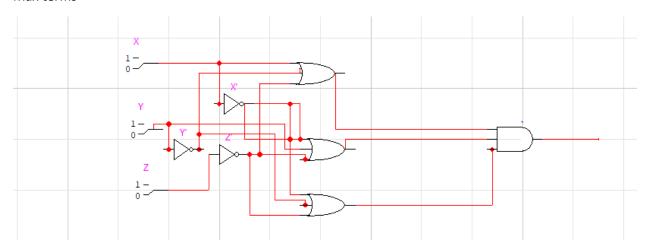
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Q7.

Max terms



Min terms

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