Prove a boolean equality (2.48)

Friday, August 25, 2017 8:45 PM

$$x2 x3'x4' + x1'x2 x4 + x1'x2 x3 + x1 x2 x3$$

= $x2 x4' + x1'x2 + x2 x3$

$$\frac{2}{2}\left(\frac{2}{2}\frac{2}{3}\frac{2}{3}\frac{2}{4}+\frac{2}{3}\frac{2}{3}\frac{2}{3}\right)$$

Find minimum PoS form using algebraic manipulations (2.15)

Friday, August 25, 2017 8:49 PM

$$(x1+x2+x3) \cdot (x1+x2'+x3) \cdot (x1'+x2'+x3) \cdot (x1+x2+x3')$$

$$(x1+x3) \cdot (x1+x2'+x3) \cdot (x1'+x2'+x3) \cdot (x1+x2+x3')$$

$$(x1+x3) \cdot (x1+x2'+x3) \cdot (x1'+x2'+x3) \cdot (x1+x2+x3')$$

$$(x1+x3) \cdot (x1+x2'+x3) \cdot (x1+x2+x3')$$

$$(x1+x2+x3) \cdot (x1+x2+x3) \cdot (x1+x2+x3) \cdot (x1+x2+x3')$$

Find minimum PoS form using algebraic manipulations (2.14)

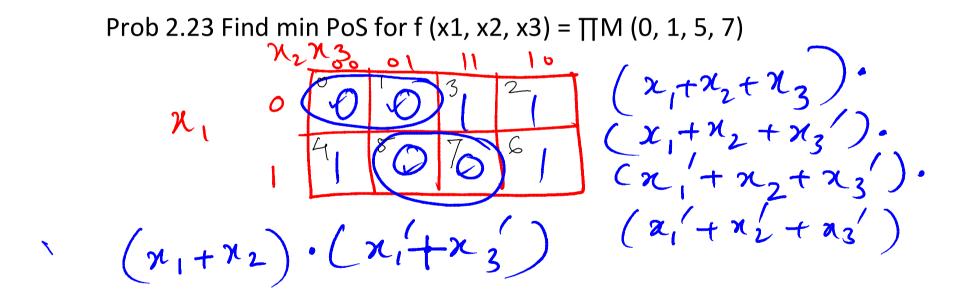
Friday, August 25, 2017 8:49 PM

$$(x_1 + x_3 + x_4) \cdot (x_1 + x_2' + x_3) \cdot (x_1 + x_2' + x_3' + x_4)$$
 $(x_1 + x_2 + x_3 + x_4) \cdot (x_1 + x_2' + x_3 + x_4) \cdot (x_1 + x_2' + x_3 + x_4)$
 $(x_1 + x_2' + x_3' + x_4)$

Sigma and Pi notations

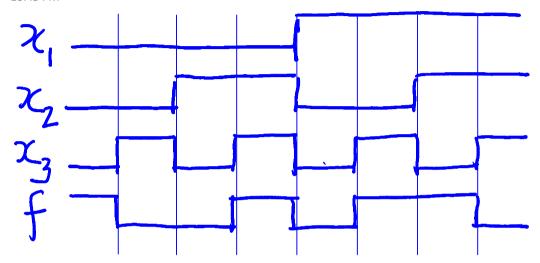
Friday, August 25, 2017 10:38 PM

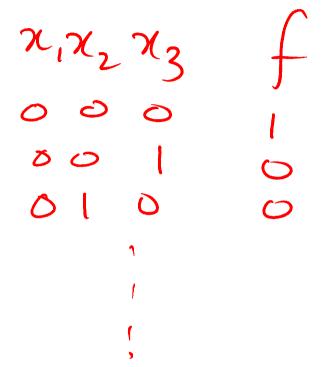
Prob 2.20 Find min SoP for f (x1, x2, x3) = \sum m (3, 4, 6, 7)



Synthesize function represented by timing diagram (2.31)

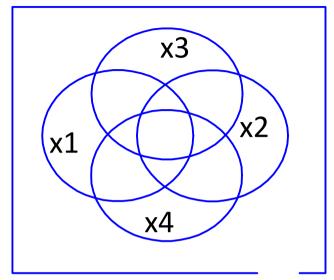
Friday, August 25, 2017 10:45 PM

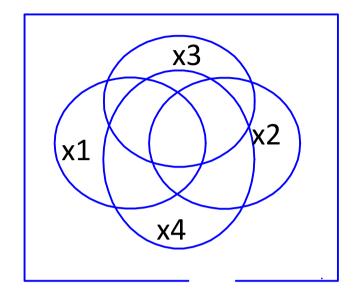




Venn diagram for 4 variables (2.18)

Friday, August 25, 2017 11:07 PM







Venn diagram for 4 variables (2.19)

Friday, August 25, 2017 11:07 PM

