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Can you solve this puzzle ?

3 + 5 = 13

6 + 7 = 41

4 + 8 = 28

2 + 9 = 11

then,

7 + 8 = ??

?

🤔

ANSWER: 30

EXPLANATION: (3 x 5) + 3 = 18, (18 - 5) = 13

(6 x 7) + 6 = 42, (42 - 7) = 35

(4 x 8) + 4 = 32, (32 - 8) = 24

(2 x 9) + 2 = 18, (18 - 9) = 9

(7 x 8) + 7 = 63, (63 - 8) = 55

16. Simplify the following expression $Y = (A + B)(A + C')(B' + C')$

$$\begin{aligned} Y &= (A + B)(A + C')(B' + C') \\ &= (AA' + AC + A'B + BC')(B' + C') \quad [A.A' = 0] \\ &= (AC + A'B + BC)(B' + C') \\ &= AB'C + ACC' + A'BB' + A'BC' + BB'C + BCC' \\ &= AB'C + A'BC' \end{aligned}$$

17).Simplify the following using De Morgan's theorem $[((AB)'C)'' D]'$

$$\begin{aligned} [((AB)'C)'' D]' &= ((AB)'C)'' + D' \quad [(AB)' = A' + B'] \\ &= (AB)' + C + D' \\ &= (A' + B') + C + D' \end{aligned}$$

18.Show that $(X + Y' + XY)(X + Y')(X'Y) = 0$

$$\begin{aligned} (X + Y' + XY)(X + Y')(X'Y) &= (X + Y' + X)(X + Y')(X'Y) \quad [A + A'B = A + B] \\ &= (X + Y' + X)(X + Y')(X'Y) \quad [A + A = 1] \\ &= (X + Y' + X)(X'Y) \quad [A.A = 1] \\ &= X.X' + Y'.X'.Y \\ &= 0 \quad [A.A' = 0] \end{aligned}$$

19).Prove that $ABC + ABC' + AB'C + A'BC = AB + AC + BC$

$$\begin{aligned} ABC + ABC' + AB'C + A'BC &= AB(C + C') + AB'C + A'BC \\ &= AB + AB'C + A'BC \\ &= A(B + B'C) + A'BC \\ &= A(B + C) + A'BC \\ &= AB + AC + A'BC \\ &= B(A + C) + AC \\ &= AB + BC + AC \\ &= AB + AC + BC \quad \text{...Proved} \end{aligned}$$

20).Convert the given expression in canonical SOP form $Y = AC + AB + BC$

$$\begin{aligned} Y &= AC + AB + BC \\ &= AC(B + B') + AB(C + C') + (A + A')BC \\ &= ABC + ABC' + AB'C + AB'C' + ABC + ABC' + ABC \\ &= ABC + ABC' + AB'C + AB'C' \quad [A + A = 1] \end{aligned}$$

21).Convert the given expression in canonical POS form $Y = (A + B)(B + C)(A + C)$

$$\begin{aligned} Y &= (A + B)(B + C)(A + C) \\ &= (A + B + C.C')(B + C + A.A') (A + B.B' + C) \\ &= (A + B + C)(A + B + C') (A + B + C)(A' + B + C)(A + B + C)(A + B' + C) \quad [A + BC = (A + B)(A + C) \text{ Distributive law}] \\ &= (A + B + C)(A + B + C')(A' + B + C)(A' + B + C)(A + B' + C) \end{aligned}$$

22). Find the minterms of the logical expression $Y = A'B'C' + A'B'C + A'BC + ABC'$

$$Y = A'B'C' + A'B'C + A'BC + ABC' = m_0 + m_1 + m_3 + m_6 = \sum P$$

23).Write the maxterms corresponding to the logical expression $Y = (A + B + C')(A + B' + C)$

$$Y = (A + B + C')(A + B' + C) = M_1.M_3.M_6 = \sum P$$

24).Convert $(4021.2)_{10}$ to its equivalent decimal.

$$\begin{aligned} (4021.2)_{10} &= 4 \times 5^3 + 0 \times 5^2 + 2 \times 5^1 + 1 \times 5^0 + 2 \times 5^{-1} \\ &= (511.4)_{10} \end{aligned}$$

Can you Solve this?

A

+

B

= 8

+

C

-

D

= 6

||

13

||

8

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