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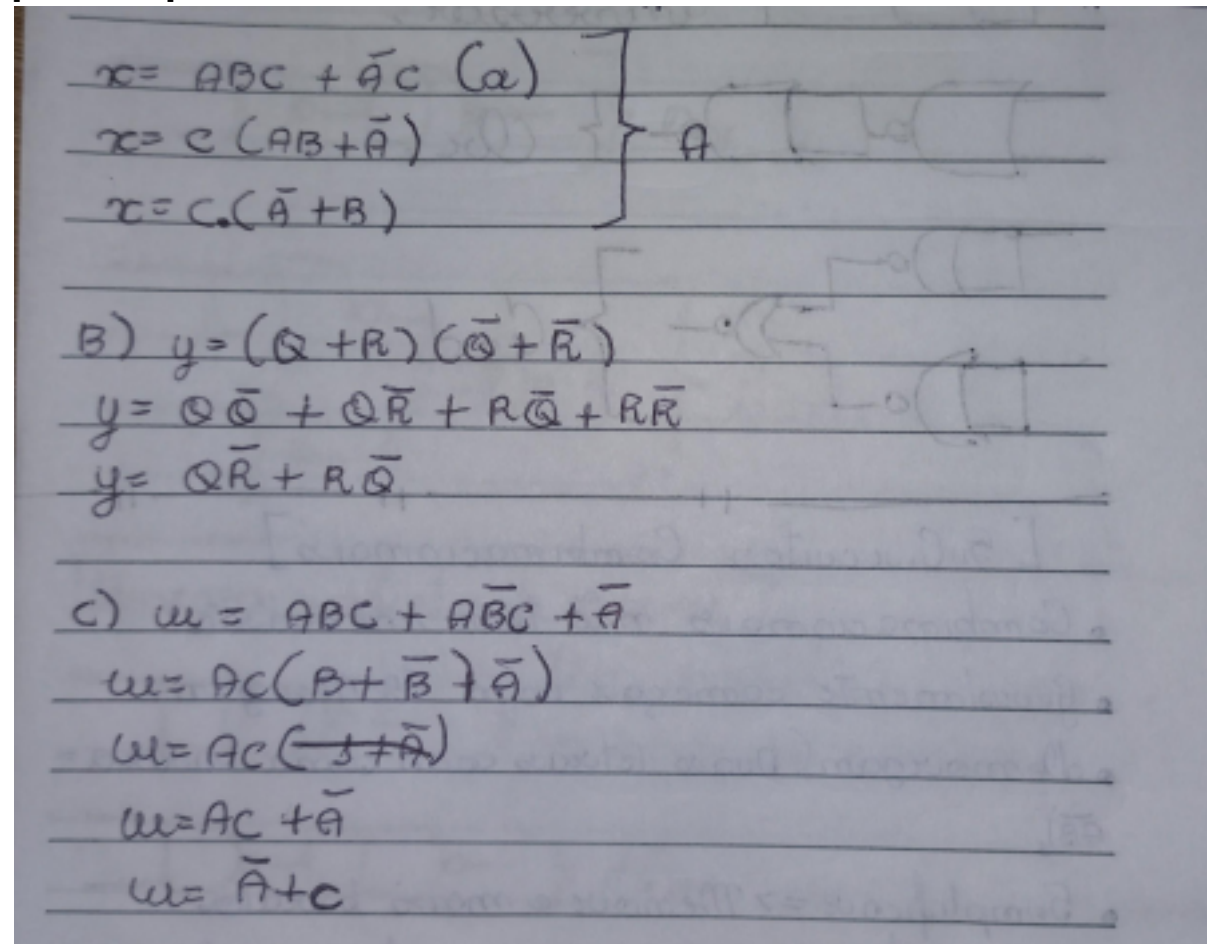
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[202200149]

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$$d) G = \overline{RST} (\overline{R+S+T})$$

$$G = \overline{R} + \overline{S} + \overline{T} (\overline{R \cdot S \cdot T}) + \overline{T} R S$$

$$G = \overline{R} + \overline{S} + \overline{T} + \overline{S} \overline{R} \overline{T} + \overline{S} \overline{T} \overline{R}$$

$$G = \overline{R} \overline{S} \overline{T}$$

$$e) X = \overline{A} \overline{B} \overline{C} + \overline{A} B C + A B C + A \overline{B} \overline{C} + A \overline{B} C$$

$$X = \overline{A} (\overline{B} \overline{C} + B C) + A (B C + \overline{B} \overline{C} + \overline{B} C)$$

$$X = \overline{A} + A (1 + \overline{B} C)$$

$$X = \overline{A} + A$$

$$X = 1$$

$$\overline{A} \overline{B} \overline{C} + \overline{A} B C + A B C + A \overline{B} \overline{C} + A \overline{B} C$$

$$\overline{A} (\overline{B} \overline{C} + B C) + A B C + A \overline{B} \overline{C} + A \overline{B} C$$

$$\overline{A} + A (B C + \overline{B} \overline{C} + \overline{B} C)$$

$$\overline{A} + A (1 + \overline{B} C)$$

$$\overline{A} + A$$

$$1$$

$$f) Y = (B + \overline{C}) (\overline{B} + C) + \overline{A + B + C}$$

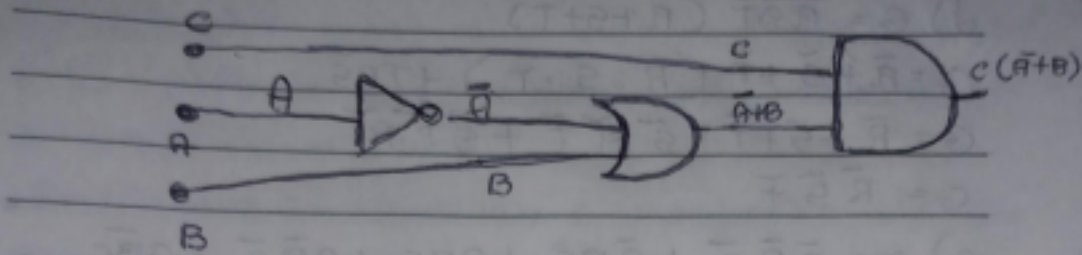
$$\overline{B} \cdot B + B C + \overline{C} \overline{B} + \overline{C} C + \overline{A B C}$$

$$B C + \overline{C} \overline{B} + \overline{A B C}$$

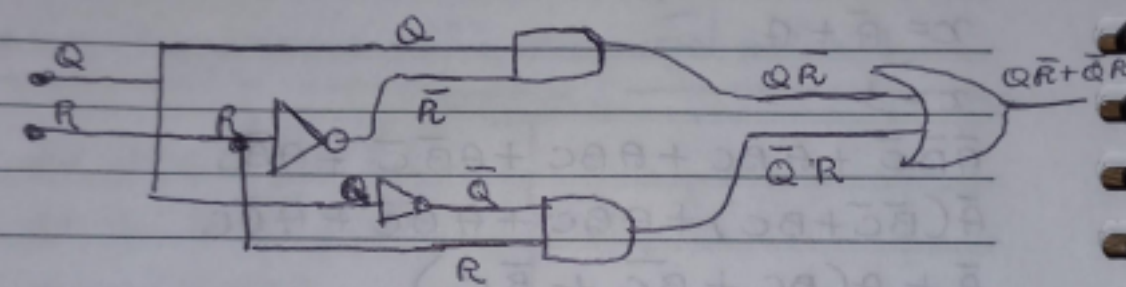
$$C (B + A \overline{B}) + \overline{C} \overline{B}$$

$$C (B + A) + \overline{C} \overline{B}$$

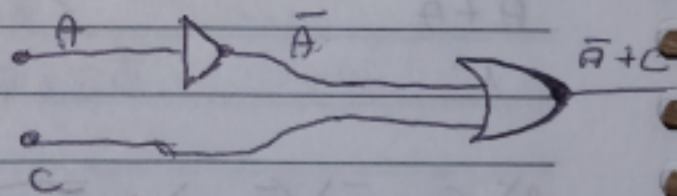
a) $c(\bar{a}+b)$



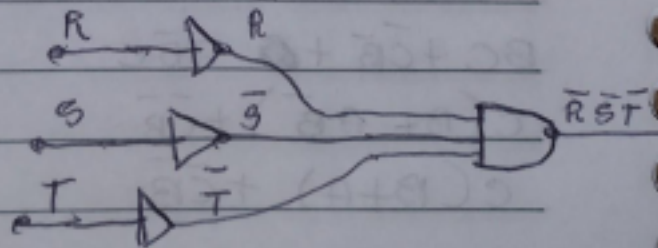
b) $Q\bar{R} + R\bar{Q}$



c) $\bar{A}+C$

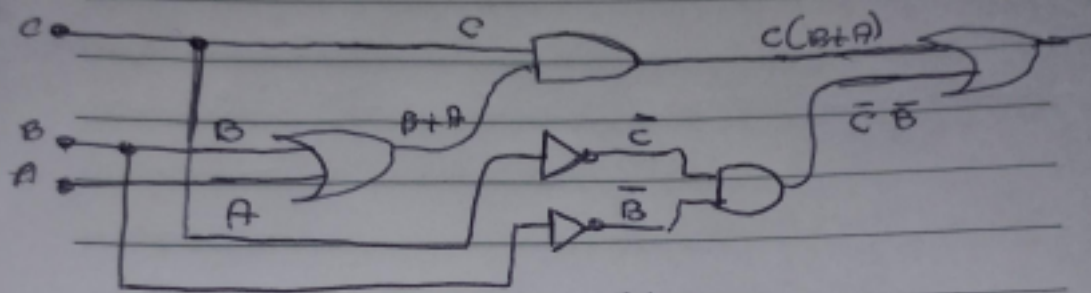


d) $\bar{R}\bar{S}\bar{T}$



$$f) CB + CA + \bar{C}\bar{B}$$

$$C(B+A) + \bar{C}\bar{B}$$



$$e) x = \bar{A}\bar{B}\bar{C} + \bar{A}BC + A\bar{B}C + A\bar{B}\bar{C} + A\bar{B}C$$

$$1 + C(\bar{B} + AB)$$

$$1 + C(\bar{A}B + A\bar{B}) + A\bar{B}\bar{C}$$

$$1 + C$$

$$BC(A + \bar{A}) + \bar{A}\bar{B}\bar{C} + A\bar{B}\bar{C} + A\bar{B}C$$

$$BC + \bar{A}\bar{B}\bar{C} + A\bar{B}\bar{C} + A\bar{B}C$$

$$C(B + A\bar{B}) + \bar{B}\bar{C}(\bar{A} + A)$$

$$C + \bar{B}\bar{C}$$

$$C(B+A) + \bar{B}\bar{C}$$

