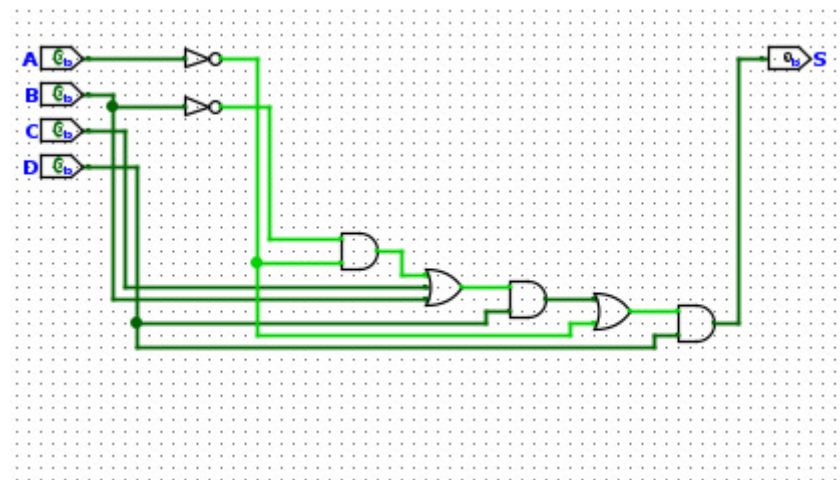
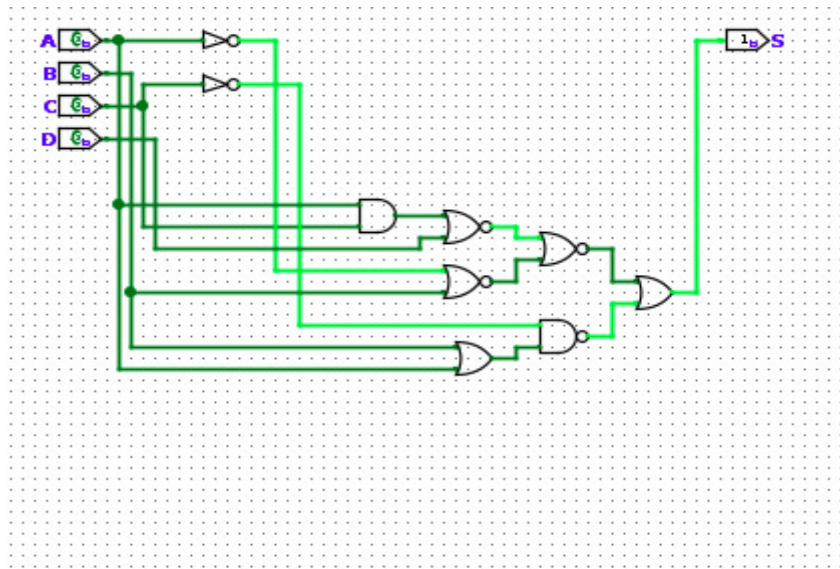
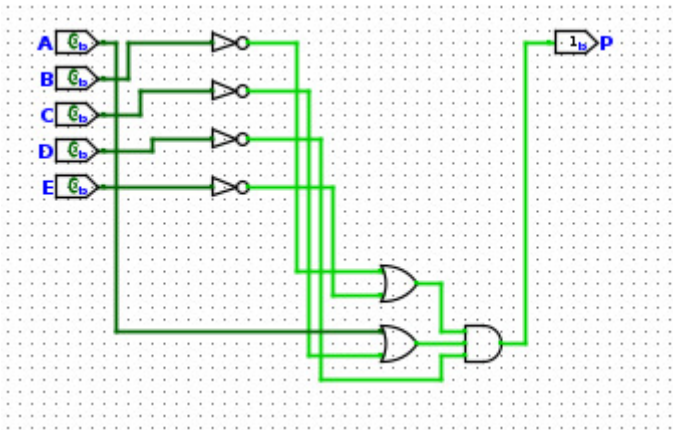
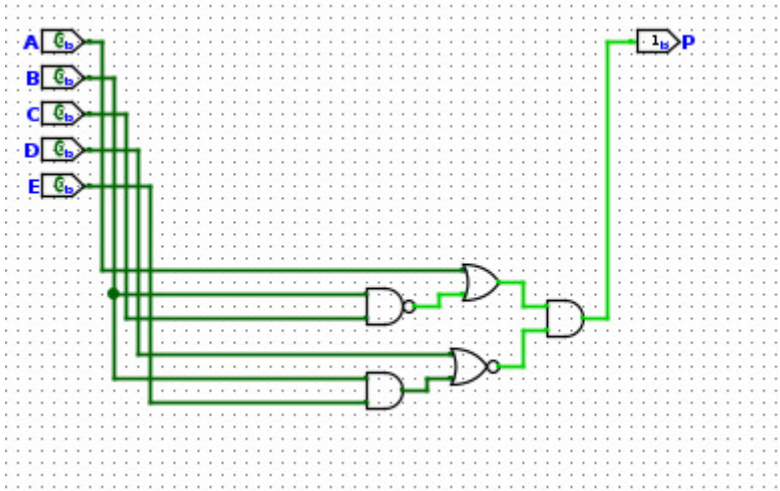


Kerby Lovince

1.1



1.2-



1)

$$S = \overline{(A \cdot C) + D} + \overline{A + B} + \overline{C \cdot (A + B)}$$

$$S = A \cdot C + D + \bar{A} + B + C + \bar{A} \cdot \bar{B}$$

$$S = A \cdot C + \bar{A} \cdot D + B \cdot D + C + \bar{B} \cdot \bar{A}$$

$$S = \bar{B} \cdot \bar{A} + C + B \cdot D + \bar{A} \cdot D$$

$$1.2) P = (A + (\bar{B} \cdot C)) \cdot (\bar{D} + \bar{B} \cdot E)$$

$$P = (A + \bar{B} + \bar{C}) \cdot (\bar{D} + \bar{B} \cdot E)$$

$$P = (A + \bar{B} + \bar{C}) \cdot \bar{D} \cdot (\bar{B} + \bar{E})$$

$$P = (A + \bar{B} + \bar{C}) \cdot (\bar{D} \cdot \bar{B} + \bar{D} \cdot \bar{E})$$

$$P = (\bar{D} \cdot \bar{B} \cdot A) + (\bar{D} \cdot \bar{B} \cdot \bar{B}) + (\bar{D} \cdot \bar{B} \cdot \bar{C}) + (\bar{D} \cdot \bar{E} \cdot A) + (\bar{D} \cdot \bar{E} \cdot \bar{B}) + (\bar{D} \cdot \bar{E} \cdot \bar{C})$$

$$P = (\bar{D} \cdot \bar{B} \cdot A) + (\bar{D} \cdot \bar{B}) + (\bar{D} \cdot \bar{B} \cdot \bar{C}) + (\bar{D} \cdot \bar{E} \cdot A) + (\bar{D} \cdot \bar{E} \cdot \bar{B}) + (\bar{D} \cdot \bar{E} \cdot \bar{C})$$

$$P = \bar{D} \cdot \bar{B} (A + 1 + \bar{C} + \bar{E}) + \bar{D} \cdot \bar{E} (A + \bar{C})$$

$$P = \bar{D} \cdot \bar{B} + \bar{D} \cdot \bar{E} \cdot (A + \bar{C})$$

$$P = \bar{D} \cdot (\bar{B} + \bar{E} \cdot (A + \bar{C}))$$

$$2) S = (B \cdot D) + (\bar{A} \cdot \bar{C}) + (\bar{B} \cdot C \cdot \bar{D})$$

2-

propiedades De Morgan

$$S = (B * D) + (-A * -C) + (-B * C * -D)$$

$$S = -(-B + -D) + -(A + C) + -(B + -C + D)$$

$$S = -((-B + -D) * (A + C) * (B + -C + D))$$