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a)
$$B = (\bar{A} + B) \cdot (\bar{A} \cdot (B + A))$$

$$= (\bar{A} + B) \cdot (\bar{A} \cdot B + \bar{A} \cdot A) = (\bar{A} + B) \cdot (\bar{A} \cdot B + O) = \bar{A} \cdot (\bar{A} \cdot B) + B \cdot (\bar{A} \cdot B)$$

$$= \bar{A} \cdot B + B \cdot \bar{A} = \bar{A} \cdot B$$

$$= > \bar{B} = \bar{A} \cdot B$$

b)
$$\theta = \overline{A} \cdot \overline{B} \cdot \overline{C} + \overline{A} \cdot B \cdot \overline{C} + A \cdot B \cdot \overline{C}$$

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

$$= (\bar{A} + B) \cdot \bar{C} \qquad \Rightarrow \boxed{B = \bar{A} \bar{C} + B \bar{C}}$$

