

$$1. m = \bar{A} \bar{B} \bar{C} \bar{D} + \bar{A} B \bar{C} \bar{D} + \bar{A} B C \bar{D} + A \bar{B} \bar{C} \bar{D} + A B \bar{C} \bar{D} + A B \bar{C} D + A B C \bar{D} + A B C D$$

$$2. m = \bar{C} \bar{D} + B(A + \bar{C} D)$$

$$3. m = \overline{\bar{C} + D} + \overline{\bar{A} + \bar{B}} + \overline{\bar{B} + C + \bar{D}}$$

$$4. m = \overline{\overline{\bar{C} \bar{D}} \overline{\bar{A} B} \overline{\bar{B} C \bar{D}}}$$