

## Boolean Algebra Function Worksheet

$$1) \quad F(B, C) = C + \overline{BC}$$

$$2) \quad F(A, B, C) = BC + \overline{B}\overline{C} + BA$$

$$3) \quad F(A, B, C) = (A + \overline{B} + \overline{C})(A + \overline{B}C)$$

$$4) \quad F(A, B) = \overline{AB} + (\overline{A} + B)(\overline{B} + B)$$

$$5) \quad F(A, B, C) = \overline{A}\overline{C} + \overline{ABC} + \overline{BC}$$

$$6) \quad F(A, B) = \overline{AB} + (\overline{A}B) + A\overline{B} + AB$$

$$7) \quad F(A, C, D) = (A + C)(AD + \overline{AD}) + AC + C$$

$$8) \quad F(A, B) = \overline{A}(A + B) + (B + AA)(A + \overline{B})$$

$$9) \quad F(A, B, C, D) = A\overline{B}(C + \overline{D}) + A\overline{B}\overline{C}D$$

$$10) \quad F(A, B, C) = ABC + A\overline{B} + AC + A\overline{B}C$$

$$11) \quad F(A, B, C, D, E) = \overline{(AC + \overline{\overline{BD}})} \overline{(E + \overline{D})} + C$$

$$12) \quad F(A, B, C, D, E) = A + \overline{AB} + \overline{A}\overline{B}C + \overline{A}\overline{B}\overline{C}D + \overline{A}\overline{B}\overline{C}\overline{D}E$$

$$13) \quad F(A, B, C) = \overline{A}\overline{B}C + \overline{ABC} + A\overline{B}C + ABC + A\overline{B}\overline{C}$$

$$14) \quad F(A, B, C) = \overline{A}\overline{B}\overline{C} + \overline{A}\overline{B}C + \overline{ABC} + \overline{ABC} + A\overline{B}\overline{C} + ABC$$

$$15) \quad F(A, B, C, D) = \overline{A}\overline{B}\overline{C}\overline{D} + \overline{A}\overline{B}\overline{C}D + \overline{A}\overline{B}CD + \overline{ABC}\overline{D} + \overline{ABC}D + \overline{ABCD} + \overline{ABC}\overline{D}$$