

# Simplify Boolean Expressions Using Boolean Identities

1.  $Q = AB + B$

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2.  $Q = C.(A + \bar{C})$

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

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4.  $Q = A.B.(B + C) + B.C + B$

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5.  $Q = B.(A + C) + A + A.(A + B)$

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6.  $Q = A.B.C + B.C + A.B.C + A.B.B$

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7.  $Q = A.B.C + B.C.D + B.C.\bar{D} + B.\bar{C}.D + A.B.\bar{C} + \bar{A}B.\bar{C}$

[illegible]

8.  $Q = A.B.C.D + A.B.D + A.\bar{B}.D + A.\bar{B}.C.D + A.C.D + \bar{A}.C.D$

[illegible]