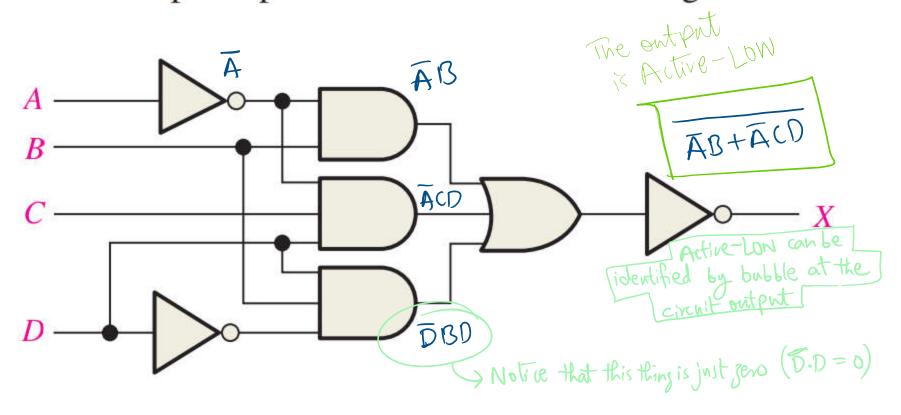
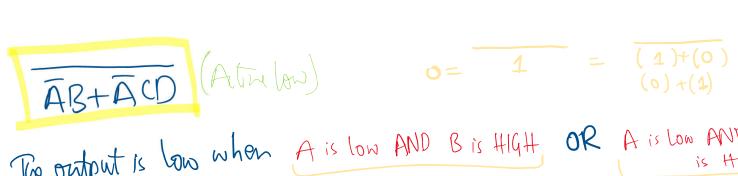
Combinational Logic / logic statements

Write the output expression for each circuit in Figure 5–54.

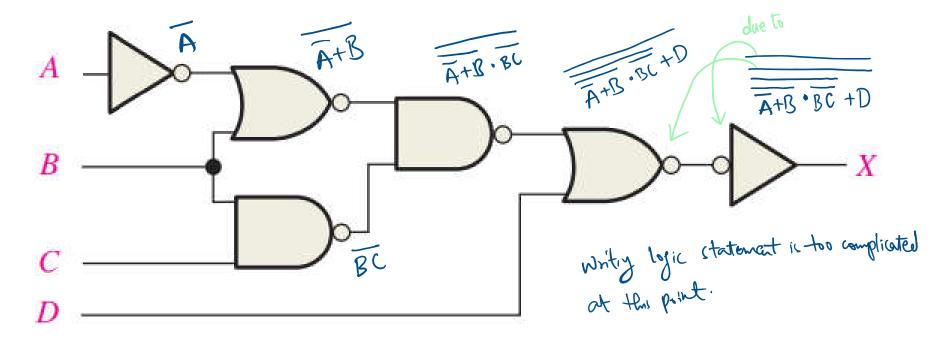


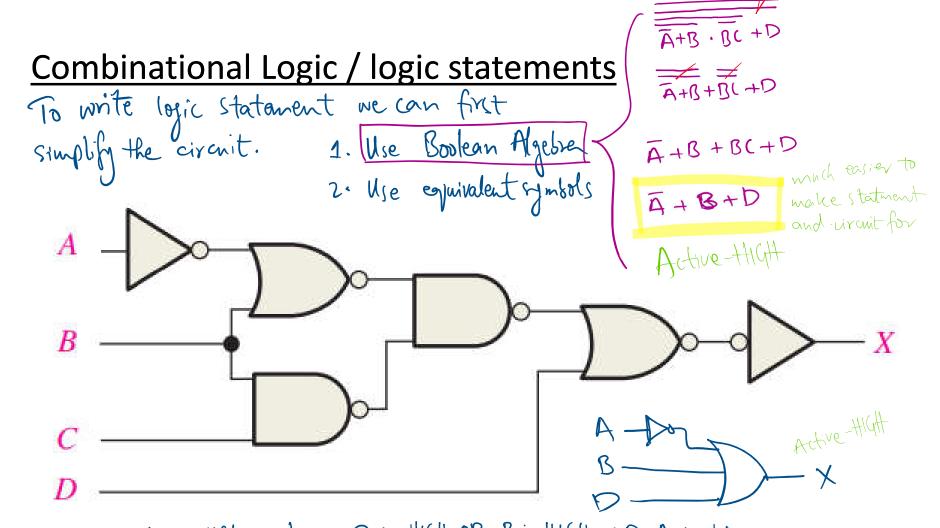


The output is low when A is low AND B is HIGH OR A is low AND Cis HIGH AND D AB=1 To convert this circuit into Active-HIGH, Use DeMorgan's theorem to eleminate the over bor in Logic Expression AB+ACD = (A+B)(A+C+D) But Active - LOW Active - HIGH table ctil their ontputs (truth tables) Modified but vivaint

Combinational Logic / logic statements

Write the output expression for each circuit in Figure 5–54.





- 1. The eartput is HIGH when D is HIGH OR B is HIGH OR A is Low.
- 2. The output is HIGH when any of De B is HIGH.

