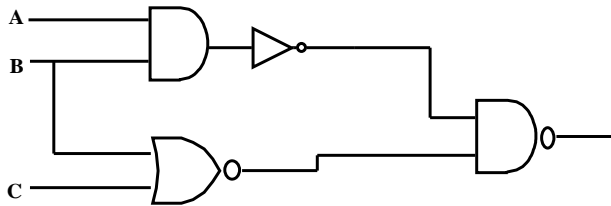


Digital Electronics – Worksheet

1. 02-03 C3 Digital Electronics

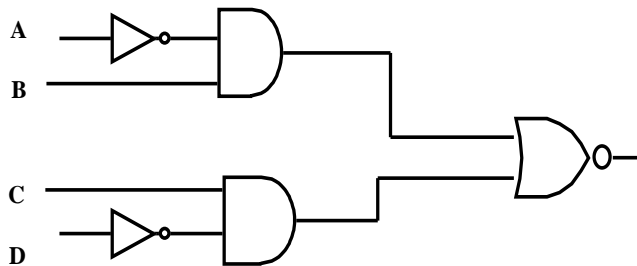
List all the ordered triples that make the following circuit FALSE.



2. 02-03 C3 Digital Electronics

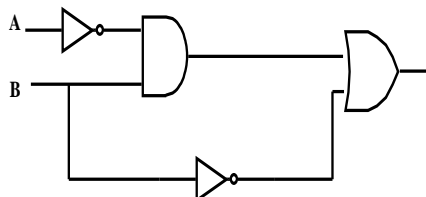
Which of the following make the circuit TRUE?

- a. (0,1,0,1) b. (1,0,1,0) c. (1,1,1,1) d. (1,0,0,1) e. (0,0,1,1)



3. 03-04 C3 Digital Electronics

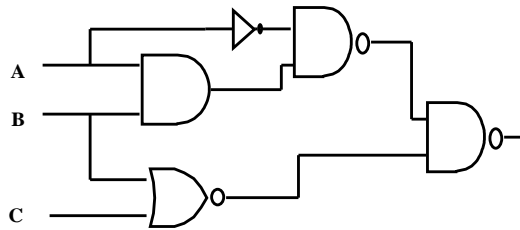
List all the ordered pairs (A,B) that make the following circuit FALSE.



Digital Electronics – Worksheet

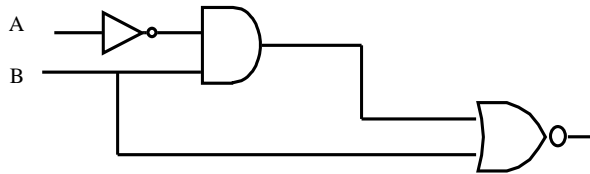
4. 03-04 C3 Digital Electronics

Write the following circuit as a Boolean expression with as few parentheses as possible.
Do not simplify.



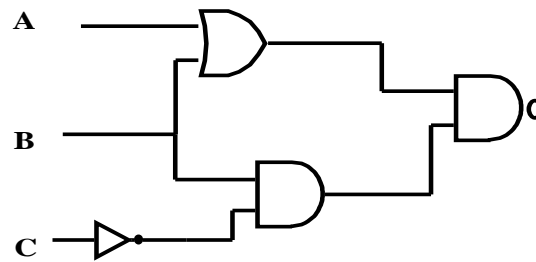
5. 04-05 C3 Digital Electronics

How many ordered pairs make the circuit TRUE?



6. 04-05 C3 Digital Electronics

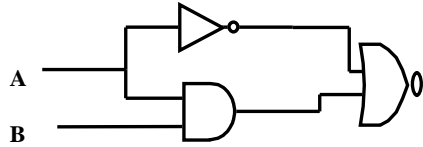
List all of the ordered triples that make the circuit FALSE.



Digital Electronics – Worksheet

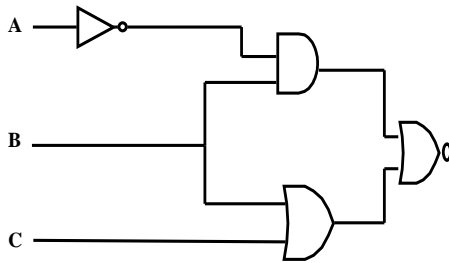
7. 05-06 C3 Digital Electronics

Translate the circuit to a Boolean expression and simplify.



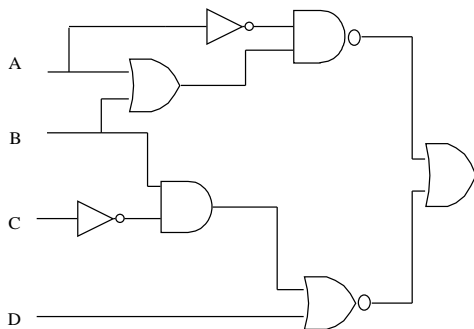
8. 05-06 C3 Digital Electronics

Translate the circuit to a Boolean expression. Do not simplify. Use the fewest parentheses possible.



9. 06-07 C3 Digital Electronics

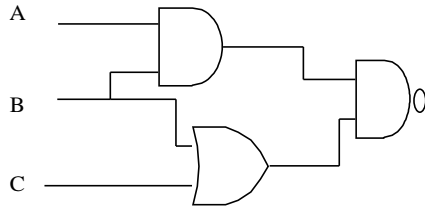
Translate (do not simplify) into a Boolean expression using the fewest parentheses possible.



Digital Electronics – Worksheet

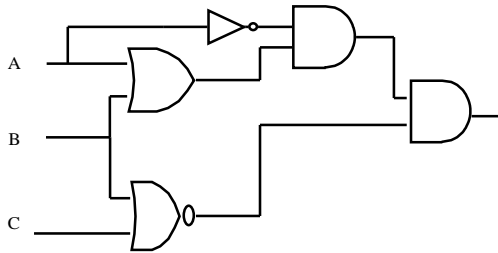
10. 06-07 C3 Digital Electronics

How many ordered triples make the circuit TRUE?



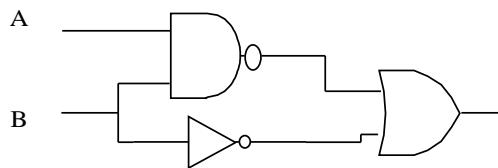
11. 07-08 C3 Digital Electronics

Simplify the Boolean expression that this circuit represents.



12. 07-08 C3 Digital Electronics

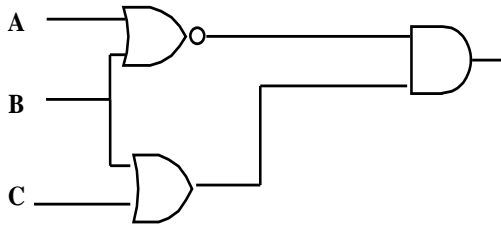
Which ordered pair(s) make the following circuit TRUE?



Digital Electronics – Worksheet

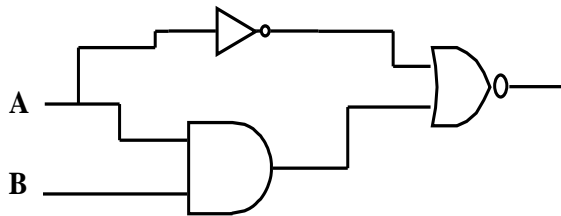
13. 08-09 C3 Digital Electronics

How many ordered triples make the circuit TRUE?



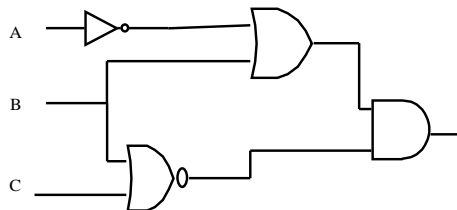
14. 08-09 C3 Digital Electronics

Simplify the Boolean expression represented by this circuit.



15. 09-10 C3 Digital Electronics

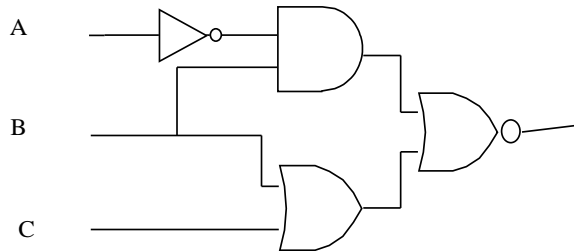
Simplify the Boolean expression this circuit represents.



Digital Electronics – Worksheet

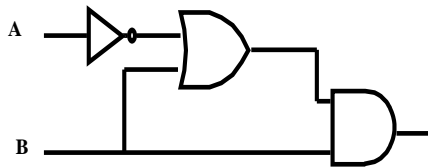
16. 09-10 C3 Digital Electronics

Which ordered triple(s) make the following circuit TRUE?



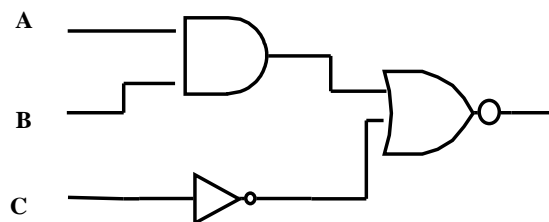
17. 10-11 C3 Digital Electronics

Simplify the Boolean expression represented by this circuit.



18. 10-11 C3 Digital Electronics

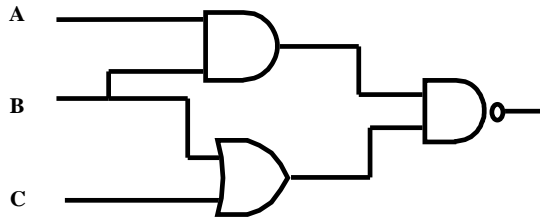
Which ordered triples(s) make the following circuit TRUE?



Digital Electronics – Worksheet

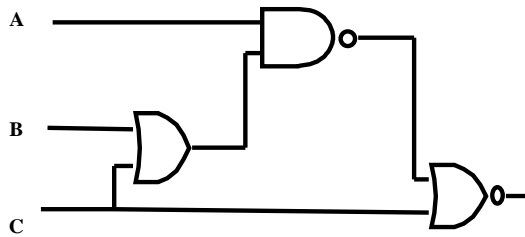
19. 11-12 C4 Digital Electronics

Find the ordered triples that make the circuit **FALSE**.



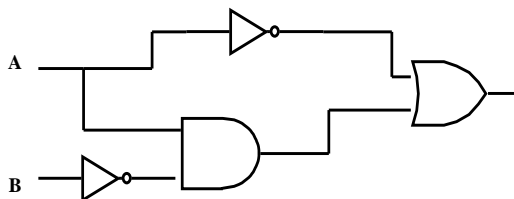
20. 11-12 C4 Digital Electronics

Simplify the Boolean expression represented by this digital circuit.



21. 12-13 C3 Digital Electronics

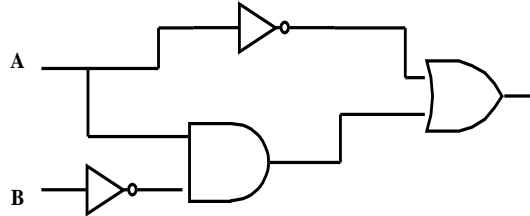
What ordered triple(s) make the following circuit FALSE?



Digital Electronics – Worksheet

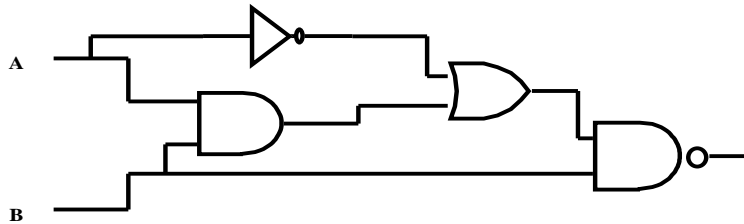
22. 12-13 C3 Digital Electronics

How many ordered pairs make the circuit TRUE?



23. 13-14 C3 Digital Electronics

Simplify the Boolean expression represented by this circuit.



24. 13-14 C3 Digital Electronics

Translate this circuit into a Boolean expression. Do not simplify.

