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1.  $x + (x \hat{a} - \Box y) = x$  is an example of which theorem?

# Absorption

2. For x = 1, y = 1 and z = 0; what is the value of = (x' + y + z')  $\hat{a} \in \phi (x' + y' + z)$   $\hat{a} \in \phi (y' + z')$ 

1

3. x + x = x is an example of which theorem?

## Idempotent

4. The decimal value of the BCD 100001110101 is?

875

5. A \_\_\_\_\_ is a sum term that contains all the variables used in the function.

### maxterm

6. Which option is a representation of DeMorgans's theorem?

$$(x + y)' = x' \hat{a} - \Box y'$$

7. What is the value of the binary addition 101 + 110 in decimal?

11

8. A \_\_\_\_\_ is a product term that contains all the variables used in a function.

### minterm

9. Which option is true when two switches are connected in series?

both switches have to be on for the output to be 1

10. Which logical operator has the same output as two switches in parallel?

OR

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