

AI Prompt: Give 10 more homework exercises on simplification of boolean expressions using boolean properties

Here are 10 more homework exercises on simplifying boolean expressions using boolean properties:

1. $(A \text{ and true}) \text{ or } (B \text{ and false})$
2. $(A \text{ or } A) \text{ and } (B \text{ or not } B)$
3. $\text{not } (A \text{ and } B) \text{ or } (\text{not } A \text{ or not } B)$
4. $(A \text{ and } B) \text{ or } (A \text{ and not } C) \text{ or } (A \text{ and } C)$
5. $A \text{ and } (B \text{ or not } B) \text{ and } C$
6. $(A \text{ or not } A) \text{ and } (B \text{ or } C)$
7. $(A \text{ and } B) \text{ or } (\text{not } A \text{ and } B) \text{ or } (C \text{ and } D) \text{ or } (\text{not } C \text{ and } D)$
8. $A \text{ or } (A \text{ and } B) \text{ or } (A \text{ and } C)$
9. $(A \text{ and } B \text{ and } C) \text{ or } (A \text{ and not } B \text{ and } C) \text{ or } (A \text{ and } B \text{ and not } C) \text{ or } (A \text{ and not } B \text{ and not } C)$
10. $(A \text{ or } B) \text{ and } (A \text{ or not } B) \text{ and } (C \text{ or } D) \text{ and } (C \text{ or not } D)$