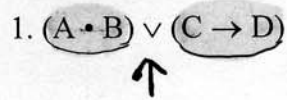
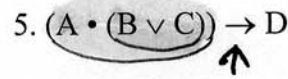
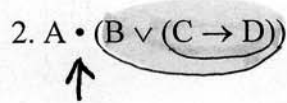


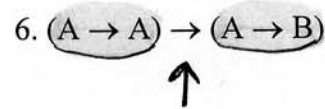
Exercise "Main Connective 1"

Using the method of parentheses binding, find the main connective in each of the following propositions:

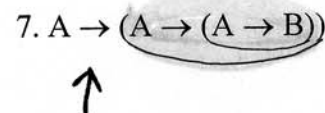
1. $(A \cdot B) \vee (C \rightarrow D)$


5. $(A \cdot (B \vee C)) \rightarrow D$


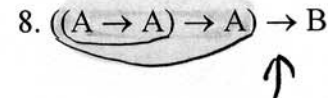
2. $A \cdot (B \vee (C \rightarrow D))$


6. $(A \rightarrow A) \rightarrow (A \rightarrow B)$


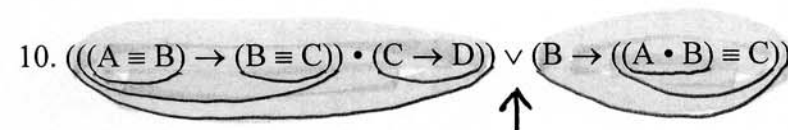
3. $((A \cdot B) \vee C) \rightarrow D$

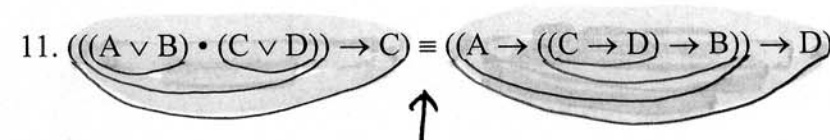

7. $A \rightarrow (A \rightarrow (A \rightarrow B))$


4. $A \cdot ((B \vee C) \rightarrow D)$


8. $((A \rightarrow A) \rightarrow A) \rightarrow B$


9. $((A \cdot B) \cdot C) \equiv (A \vee C) \rightarrow (A \cdot (B \vee C))$


10. $((A \equiv B) \rightarrow (B \equiv C)) \cdot (C \rightarrow D) \vee (B \rightarrow ((A \cdot B) \equiv C))$


11. $((A \vee B) \cdot (C \vee D)) \rightarrow C \equiv ((A \rightarrow ((C \rightarrow D) \rightarrow B)) \rightarrow D)$


'↑' points to the main connective

Exercise "Main Connective 2"

Using the method of parentheses binding, find the main connective in each of the following propositions:

1. $\sim A \rightarrow (B \vee A)$

5. $\sim(\sim A \vee B) \rightarrow C$

2. $\sim(A \rightarrow B) \vee A$

6. $\sim(\sim A \vee (B \rightarrow C))$

3. $\sim((A \rightarrow B) \vee A)$

7. $\sim(A \vee (B \rightarrow C))$

4. $\sim A \vee (B \rightarrow C)$

8. $\sim(A \vee B) \rightarrow C$

9. $\sim(\sim(A \vee \sim B) \rightarrow \sim(A \cdot B)) \rightarrow \sim(\sim A \vee \sim A)$

10. $\sim(\sim(A \rightarrow (B \cdot A)) \equiv \sim(\sim B \rightarrow \sim A))$

11. $\sim(\sim A \vee \sim(B \cdot \sim C)) \rightarrow \sim((\sim C \vee B) \equiv A)$

'↑' points to the main connective