Determine the logical status of the following wffs using the truth-tree method:

Name: [   ]

E-mail: [   ]

1. (A ≡ (B v C)) ⊃ (A ≡ (B v C))   *check your answer*   [contingency ▾]

2. ~((K v ~K) v ~(K v ~K))   [contingency ▾]

3. (A ⊃ (A v B)) ⊃ (A ≡ (A v B))   [contingency ▾]

4. ~((((A v ~A) ⊃ B) ⊃ (A v ~A)) ⊃ (A v ~A))   [contingency ▾]

5. (C ⊃ D) ⊃ ((C ≡ D) ⊃ (C v E))   [contingency ▾]

6. ~K v (~K v K)   [contingency ▾]

7. ((J v R) & Z) ⊃ (J v R)   [contingency ▾]

8. ((A & B) & (C & (D & E))) & ((A & B) & (C & (D & E)))   [contingency ▾]

9. (A ≡ ~B) ⊃ (B ⊃ ~A)   [contingency ▾]

10. (~J & (~K ⊃ ~~J)) ⊃ K   [contingency ▾]

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