```
5. ((Smoke ∧ Heat) ⇒ Fire) ⇔ ((Smoke ⇒ Fire) ∨ (Heat ⇒ Fire))

≡(7Smoke ∨ 7Heat ∨ Fire) ⇔ (7Smoke ∨ Fire ∨ 7Heat ∨ Fire)

≡(7Smoke ∨ 7Heat ∨ Fire) ⇔ (7Smoke ∨ 7Heat ∨ Fire)

(设 A= 7Smoke ∨ 7Heat ∨ Fire)

≡ A⇔ A≡ (A⇒ A) ∧ (A⇒ A) ≡ (7A∨A) ∧ (7A∨A)

≡ True ∧ True ≡ True

Valid
```

7. (Big
$$\Lambda$$
 Dump) V^7 Dump
$$\equiv (Big V^7 Dump) \Lambda (Dump V^7 Dump)$$

$$\equiv (Big V^7 Dump) \Lambda True$$

$$\equiv (Big V^7 Dump)$$
Neither