Binary, Truth Table, and Conditional Practice

Binary

Convert the Following From Binary (Base 2) to Decimal (Base 10).

- 1. 110001
- 2. 1001110
- 3. 100101
- 4. 111010
- 5. 1000011
- 6. 100
- 7. 10100
- 8. 11111
- 9. 1011000
- 10. 101000

Convert the Following From Decimal (Base 10) to Binary (Base 2).

- 1. 78
- 2. 67
- 3. 20
- 4. 40
- 5. 58
- 6.88
- 7. 37
- 8. 49
- 9. 4
- 10. 31

Truth Tables

Generate Truth Tables for the Following

- 1. NOT (A V B)
- 2. $(CVB)\Lambda((C\Lambda A)VB)$
- 3. NOT(NOT(NOT(AVB)))
- 4. A ∧ B ∧ C
- 5. B V B \wedge NOT(A \wedge C)

Conditional Practice

Evaluate the Following Expressions

Given:

```
isFlat = True
isRound = False
```

```
1. (isFlat || isRound) && (isRed && isFlat)
2. (isRound || (isRed == isFlat))
3. !(isRound && isFlat && isRed)
4. ((isRound != isRed) == isFlat) && True)
5. (((isRed == isRound) || True) || False)
6. (!(True && True && True))
```