```
5.1 x \times x = x
```

an element of x my is always an element of x. Therefore x Bushing=x

2. Sev sery = sev(sery) (Associativity)
$$xv(xry) = x$$
 (law of absorption)

6.1

$$\begin{array}{c|cccc}
1 & (P \vee q) \rightarrow q & (A) \\
2 & | P & (A) \\
3 & | P \vee q & (V - T_{9} 1) \\
4 & | Q & (-7 - E_{9} 1, 3) \\
5 & | P \wedge q & (-7 - E_{9} 1, 3) \\
6 & | P \geqslant (P \wedge q) & (-7 + T_{1} = 4)
\end{array}$$

2.

7.1