```
Applying first the commutative law and then the distributive law, we obtain:  (p \land q) \lor r = r \lor (p \land q)   = (r \lor p) \land (r \lor q).  Applying the commutative law to both brackets on the right side, gives:  (p \land q) \lor r = (p \lor r) \land (q \lor r).
```

Figure 1:

## 1 Logic