

$((\neg p \rightarrow q) \vee r) \rightarrow ((p \wedge \neg r) \vee \neg q)$ ("p", "q", "r")

```
(
  (
    type: "implies",
    a: (
      type: "or",
      a: (type: "implies", a: (type: "not", a: "p"), b: "q"),
      b: "r",
    ),
    b: (
      type: "or",
      a: (type: "and", a: "p", b: (type: "not", a: "r")),
      b: (type: "not", a: "q"),
    ),
  ),
  (
    type: "or",
    a: (type: "implies", a: (type: "not", a: "p"), b: "q"),
    b: "r",
  ),
  (type: "implies", a: (type: "not", a: "p"), b: "q"),
  (type: "not", a: "p"),
  "p",
  "q",
  "r",
  (
    type: "or",
    a: (type: "and", a: "p", b: (type: "not", a: "r")),
    b: (type: "not", a: "q"),
  ),
  (type: "and", a: "p", b: (type: "not", a: "r")),
  (type: "not", a: "r"),
  (type: "not", a: "q"),
)
```

p	q	r	$\neg p$	$\neg r$	$\neg q$	$\neg p \rightarrow q$	$p \wedge \neg r$	$(\neg p \rightarrow q) \vee r$	$(p \wedge \neg r) \vee \neg q$	$((\neg p \rightarrow q) \vee r) \rightarrow ((p \wedge \neg r) \vee \neg q)$
0	0	0	1	1	1	0	0	0	1	1
0	0	1	1	0	1	0	0	1	1	1
0	1	0	1	1	0	1	0	1	0	0
0	1	1	1	0	0	1	0	1	0	0
1	0	0	0	1	1	1	1	1	1	1
1	0	1	0	0	1	1	0	1	1	1
1	1	0	0	1	0	1	1	1	1	1
1	1	1	0	0	0	1	0	1	0	0