

```
(DEFINE (NEG-SUBF F) (CDR F))
(DEFINE (DISJ-LEFT F) (SECOND F))
(DEFINE (DISJ-RGHT F) (THIRD F))
(DEFINE (CONJ-LEFT F) (SECOND F))
(DEFINE (CONJ-RIGHT F) (THIRD F))  (CONJ-RIGHT F) (THIRD F))  (CONJ-RIGHT F) (THIRD F))  (CONJ-RIGHT F) (THIRD F))  (CONJ-RIGHT F) (THIRD F))
```

```
(DEFINE (PROP? F)
  (OR (VAR? F)
    (AND (NEG? F)
      (PROP? (NEG-SUBF F)))
    (AND (DISJ? F)
      (PROP? (DISJ-LEFT F))
      (PROP? (DISJ-RGHT F)))
    (AND (CONJ? F)
      (PROP? (CONJ-LEFT F))
      (PROP? (CONJ-RIGHT F))))))
```

```
(DEFINE (DISTRIBUTE-RIGHT DISJ-F) ;; P V (Q ^ R) <=> (P V Q) ^ (P V R)
  (DEFINE LEFT (SECOND DISJ-F))
  (DEFINE RIGHT (THIRD DISJ-F))
  (LIST 'CONJ
    (LIST 'DISJ LEFT (CONJ-LEFT RIGHT))
    (LIST 'DISJ LEFT (CONJ-RIGHT RIGHT)))))
```

```
(DEFINE (DISTRIBUTE-LEFT DISJ-F) ;;(P ^ Q) V R <=> (P V R) ^ (Q V R)
  (DEFINE LEFT (SECOND DISJ-F))
  (DEFINE RIGHT (THIRD DISJ-F))
  (LIST 'CONJ
    (LIST 'DISJ RIGHT (CONJ-LEFT LEFT))
    (LIST 'DISJ RIGHT (CONJ-RIGHT LEFT)))))
```

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