

| NEGACE KONJUNKCE | | | | | | | |
|------------------|---|---------------------|-------------------|----------------------------|---|---|---|
| A | B | $\neg [A \wedge B]$ | \Leftrightarrow | $[(\neg A) \vee (\neg B)]$ | | | |
| 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 0 | 1 | 1 | 1 |
| 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |

| NEGACE DISJUNKCE | | | | | | | |
|------------------|---|-------------------|-------------------|------------------------------|---|---|---|
| A | B | $\neg [A \vee B]$ | \Leftrightarrow | $[(\neg A) \wedge (\neg B)]$ | | | |
| 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |

| NEGACE IMPLIKACE | | | | | | | |
|------------------|---|--------------------------|-------------------|-----------------------|---|---|---|
| A | B | $\neg [A \Rightarrow B]$ | \Leftrightarrow | $[A \wedge (\neg B)]$ | | | |
| 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 |
| 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |

| NEGACE EKVIVALENCE | | | | | | | | | | | |
|--------------------|---|------------------------------|-------------------|--|---|---|---|---|---|---|---|
| A | B | $\neg [A \Leftrightarrow B]$ | \Leftrightarrow | $[(A \wedge (\neg B)) \vee (B \wedge (\neg A))]$ | | | | | | | |
| 1 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 |
| 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |

| OBRÁCENÍ IMPLIKACE | | | | | | |
|--------------------|---|---------------------|-------------------|---------------------|---|---|
| A | B | $[A \Rightarrow B]$ | \Leftrightarrow | $[B \Rightarrow A]$ | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 0 | 0 | 0 | 0 | 1 | 1 |
| 0 | 1 | 1 | 0 | 1 | 0 | 0 |
| 0 | 0 | 1 | 1 | 0 | 1 | 0 |

| OBMĚNA IMPLIKACE | | | | | | |
|------------------|---|---------------------|-------------------|-----------------------------------|---|---|
| A | B | $[A \Rightarrow B]$ | \Leftrightarrow | $[(\neg B) \Rightarrow (\neg A)]$ | | |
| 1 | 1 | 1 | 1 | 0 | 1 | 0 |
| 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| 0 | 1 | 1 | 1 | 0 | 1 | 1 |
| 0 | 0 | 1 | 1 | 1 | 1 | 1 |

PŘÍKLAD NEGACE SLOŽITĚJŠÍHO VÝROKU

| A | B | C | $\neg [(A \wedge B) \Rightarrow C]$ | \Leftrightarrow | $[(A \wedge B) \wedge (\neg C)]$ |
|---|---|---|-------------------------------------|-------------------|----------------------------------|
| 1 | 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 |
| 1 | 0 | 1 | 0 | 1 | 0 |
| 1 | 0 | 0 | 0 | 1 | 0 |
| 0 | 1 | 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 | 1 | 0 |
| 0 | 0 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 1 | 0 |

PŘÍKLAD FORMULE, KTERÁ NENÍ TAUTOLOGIÍ

| A | B | C | $\neg [(A \wedge B) \Rightarrow C]$ | \Leftrightarrow | $[(A \vee B) \wedge (\neg C)]$ |
|---|---|---|-------------------------------------|-------------------|--------------------------------|
| 1 | 1 | 1 | 0 | 1 | 0 |
| 1 | 1 | 0 | 1 | 1 | 1 |
| 1 | 0 | 1 | 0 | 1 | 0 |
| 1 | 0 | 0 | 0 | 1 | 1 |
| 0 | 1 | 1 | 0 | 1 | 0 |
| 0 | 1 | 0 | 0 | 1 | 1 |
| 0 | 0 | 1 | 0 | 1 | 0 |
| 0 | 0 | 0 | 0 | 1 | 0 |