2. $\neg A, \neg B, \neg C, \neg D \succ A \vee (B \to (C \to D))$

  1. $\neg C \to (C \to D)$ [аксіома $\neg a \to (a \to b)$)

  2. $\neg C$ [2-ге припущення]

  3. $C \to D$ [MP 2.1]

  4. $(C \to D) \to (B \to (C \to D))$ [$a \to (b \to a)$]

  5. $B \to (C \to D)$ [MP 3,4]

  6. $(B \to (C \to D)) \to A \vee (B \to (C \to D))$ [$a \to a \vee b$]

  7. $A \vee (B \to (C \to D))$ [MP 5,6]

3. $\neg (\forall x (\neg P(x) \vee R(x)) \wedge \forall x (\neg P(x) \vee Q(x))$ ⓥ

  ⓥ $(\neg \exists x P(x) \vee \exists x (Q(x) \wedge R(x)))$

$\neg \forall x (\neg P(x) \vee (R(x) \wedge Q(x))) \vee (\forall x \neg P(x) \vee \exists x (Q(x) \wedge R(x)))$

$(\neg \forall x \neg P(x) \wedge \neg \forall x (R(x) \wedge Q(x))) \vee (\forall x \neg P(x) \vee \exists x (Q(x) \wedge R(x)))$

$(\neg \forall x \neg P(x) \vee \forall x \neg P(x)) \wedge (\neg \forall x R(x) \wedge Q(x)) \vee \exists x (Q(x) \wedge R(x))$

$\exists x (\neg (R(x) \wedge Q(x)) \vee \exists x (Q(x) \wedge R(x))$

$\exists x (\neg (R(x) \wedge Q(x)) \vee (R(x) \wedge Q(x))$

            Тавтологія $A \vee \neg A$