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L≠P
X \cap (Y \setminus Z) = (X \cup Y) \setminus (X \cap Z)
x \in X \land x \in (Y \setminus Z) = x \in (X \cup Y) \land x \notin (X \cap Z)
x \in X \land (x \in Y \land x \notin Z) = (x \in X \lor x \in Y) \land (x \notin X \land x \notin Z)
(x \in X \land x \in Y) \land (x \in X \land x \notin Z) \neq (x \in X \lor x \in Y) \land (x \notin X \land x \notin Z)
X = \{ 1; 2; 3 \}
Y = \{3; 4; 5\}
Z = \{ 1; 5; 6 \}
L = X \cap (Y \setminus Z) = X \setminus (\{3, 4, 5\} \setminus \{1, 5, 6\}) = X \setminus \{3, 4\} = \{1, 2, 3\} \setminus \{3, 4\} = \{1, 2\}
P = (X \cup Y) \setminus (X \cap Z) = (\{1; 2; 3\} \cup \{3; 4; 5\}) \setminus (\{1; 2; 3\} \cap \{1; 5; 6\}) = \{1; 2; 3; 4; 5\}
\{1\} = \{2; 3; 4; 5\}
L≠P
(X \cup Y) \cap (Y \setminus X) = Y
x \in (X \cup Y) \land x \in (Y \setminus X) = x \in Y
(x \in X \lor x \in Y) \land (x \in Y \land x \notin X) = x \in Y
X = \{ 1; 2; 3 \}
Y = \{ 3; 4; 5 \}
Z = \{ 1; 5; 6 \}
L = (X \cup Y) \cap (Y \setminus X) = (\{1; 2; 3\} \cup \{3; 4; 5\}) \cap (\{3; 4; 5\} \setminus \{1; 2; 3\}) = \{1; 2; 3; 4; 5\} \cap
{4;5} = {1;2;3}
P = Y = \{3; 4; 5\}
L \neq P
2)
X = \{ 1; 2; 3; 4; 5; 6; 7; 8; 9 \}
R = \{ (x, y); x, y \in X; 4y \mid 3x \}
3x \% 4y = 0
R = \{ (4, 1); (4, 3); (8, 1); (8, 2); (8, 3); (8, 6) \}
Df = \{4; 8\}
Hf = \{ 1; 2; 3; 6 \}
R^{-1} = \{ (1, 4); (3, 4); (1, 8); (2, 8); (3, 8); (6, 8) \}
3)
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4; **5** } **=** { } **=** Ø