

1: $\Pi^+(\mathbf{M}, \mathbf{P})$ assumption

2: $\Pi^+(\mathbf{M}, \mathbf{S})$ assumption

3: $\Sigma^+(\mathbf{S}, \mathbf{M})$ 2

4: $\Sigma^+(\mathbf{M}, \mathbf{S})$ 3

5: $\Pi^-(\mathbf{S}, \mathbf{P})$ assumption contradicting $\Sigma^+(\mathbf{S}, \mathbf{P})$

6: $\Pi^-(\mathbf{P}, \mathbf{S})$ 5

7: $\Pi^+(\mathbf{M}, \mathbf{P})$ 1

8: $\Pi^-(\mathbf{M}, \mathbf{S})$ 6,7

9: $\Sigma^+(\mathbf{M}, \mathbf{S})$ 4

10: $\Sigma^+(\mathbf{S}, \mathbf{P})$ 8,9