Harshitha R-1BM21CS075

Step	Clause	Derivation
1.	Rv~P	Given.
1. 2. 3.	Rv~Q	Given.
3.	~RvP	Given.
4.	~RvQ	Given.
5.	~R	Negated conclusion.
6.	1	Resolved Rv~P and ~RvP to Rv~R, which is in turn null.
A cont	radiction	is found when ~R is assumed as true. Hence, R is true.

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Step	Clause	Derivation
1.	PvQ	Given.
2.	∼P∨R	Given.
3.	~Q∨R	Given.
4.	~R	Negated conclusion.
4. 5.	QvR	Resolved from PvQ and ~PvR.
6.	PvR	Resolved from PvQ and ~QvR.
7.	~P	Resolved from ~PvR and ~R.
8.	~Q	Resolved from ~QvR and ~R.
9.	I Q	Resolved from ~R and QvR.
10.	P	Resolved from ~R and PvR.
11.	R	Resolved from QvR and ~Q.
12.	1	Resolved R and ~R to Rv~R, which is in turn null.
A cont	radiction	is found when ~R is assumed as true. Hence, R is true.

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	PvQ	Given.
2.	PvR	Given.
3.	~PvR	Given.
4.	RvS	Given.
5.	Rv~Q	Given.
6.	~Sv~Q	Given.
7.	~R	Negated conclusion.
8.	QvR	Resolved from PvQ and ~PvR.
9.	Pv~S	Resolved from PvQ and ~Sv~Q.
10.	P	Resolved from PvR and ~R.
11.	~P	Resolved from ~PvR and ~R.
12.	Rv~S	Resolved from ~PvR and Pv~S.
13.	R	Resolved from ~PvR and P.
14.	S	Resolved from RvS and ~R.
15.	~Q	Resolved from Rv~Q and ~R.
16.	I Q	Resolved from ~R and QvR.
17.	~S	Resolved from ~R and Rv~S.
18.	1	Resolved ~R and R to ~RvR, which is in turn null.