16	$\{7x, y\}$	7,10 RESOLUTION
17	$\{y\}$	16,14 RESOLUTION
18	$\{x, 7z\}$	8,17 RESOLUTION
19	$\{7, 7z\}$	18,17 RESOLUTION
20	$\{7z\}$	17,19 RES
21	$\{x\}$	18,20 RES
22	$\{7, z\}$	22,15 RES
23	$\downarrow$	17,22 RES

THE SET HAS A CLOSED EXPANSION $\Rightarrow$ THE STATEMENT IS CORRECT

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c) $(X \leftrightarrow Y) \rightarrow Z, (X \leftrightarrow Z) \rightarrow Y \vDash X \rightarrow (Y \leftrightarrow Z)$

SEMANTICAL

X	Y	Z	$X \leftrightarrow Y$	F_1	$X \leftrightarrow Z$	F_2	$Y \leftrightarrow Z$	φ
0	0	0	1	0	1	0	1	1
0	0	1	1	1	0	1	0	1
0	1	0	0	1	1	1	0	1
0	1	1	0	1	0	1	1	1
1	0	0	0	1	0	1	1	1
1	0	1	0	1	1	0	0	0
1	1	0	1	0	0	1	0	0
1	1	1	1	1	1	1	1	1

v_2, v_3, v_4, v_5 SATISFY BOTH THE PREMISES AND CONCLUSION. HENCE

FF φ ✓