

MA 11 $(A \rightarrow B) \rightarrow C; (\bar{C} \wedge D) \vee E; E \rightarrow (\bar{E} \wedge F)$
 1993 (1)
 $\vdash B \rightarrow F$
 valide

MA 12 $(A \vee B) \rightarrow \overline{A \rightarrow B}; \overline{A \vee B} \vee (C \leftrightarrow D)$
 1993 (2)
 $\vdash C \rightarrow D$
 valide

MA 13 $(A \vee B) \rightarrow \bar{C}; (A \vee B) \leftrightarrow \bar{D}$
 1994 (1n)
 $\vdash D \rightarrow (A \rightarrow C)$
 non-valide

MA 14 $A \leftrightarrow (B \rightarrow C); (B \wedge D) \vee \overline{B \vee D}; (\overline{D \rightarrow C} \wedge D) \rightarrow C$
 1994 (2n)
 $\vdash A$
 valide

MA 15 $A \rightarrow [\overline{B \vee C \vee D}]; \overline{A \rightarrow D} \wedge (\bar{A} \leftrightarrow D)$
 1994 (2a)
 $\vdash \bar{E} \rightarrow (\bar{E} \rightarrow C)$
 non-valide

MA 16 $(A \wedge B) \rightarrow C; (A \wedge C) \rightarrow B; A$
 1995 (1)
 $\vdash C \leftrightarrow B$
 valide

MA 17 $\overline{C \vee D} \rightarrow \overline{A \wedge B}; D \rightarrow \bar{C}; \overline{D \rightarrow E}$
 1995 (2)
 $\vdash \bar{B}$
 non-valide

MA 18 $\overline{A \wedge B} \rightarrow (\bar{C} \vee D); \bar{C} \rightarrow (C \wedge E)$
 1996 (1)
 $\vdash B \vee D$
 valide

MA 19 $\overline{A \wedge B} \vee (C \vee D); \overline{B \rightarrow (A \rightarrow C)}$
 1996 (2)
 $\vdash \bar{E} \rightarrow D$
 valide

MA 20 $(R \rightarrow S) \rightarrow (A \rightarrow B); \bar{R} \leftrightarrow C$
 1997 (2)
 $\vdash C \rightarrow (A \rightarrow B)$
 valide

MA 21 $(A \leftrightarrow B) \rightarrow (\bar{C} \vee D); A \rightarrow B$
 1998 (1)
 $\vdash [\bar{C} \rightarrow B \vee (A \wedge C)] \rightarrow D$
 valide

MA 22

1999 (1)

valide

$$(\bar{A} \wedge \bar{B}) \rightarrow \overline{C \wedge D}; D \wedge \overline{C \vee A}$$

$$\vdash \bar{B} \rightarrow E$$

MA 23

2000 (1)

valide

$$(A \rightarrow B) \wedge (B \rightarrow C); C \leftrightarrow D; \bar{D} \vee E$$

$$\vdash A \rightarrow E$$

MA 24

2001 (1)

valide

$$\overline{P \rightarrow Q}; \overline{S \wedge \bar{P}} \rightarrow R; \overline{T \rightarrow U} \wedge (W \vee \bar{R})$$

$$\vdash \overline{(W \vee U) \rightarrow \bar{R}}$$

MA 25

2001 (2)

valide

$$(E \rightarrow B) \rightarrow \overline{C \leftrightarrow D}; (\bar{D} \vee \bar{E}) \rightarrow \overline{C \rightarrow \bar{D}}$$

$$\vdash F \rightarrow (\bar{E} \rightarrow \overline{\bar{D} \vee C})$$

MA 26

2002 (1)

valide

$$(K \rightarrow \bar{L}) \rightarrow (L \wedge M); (K \leftrightarrow L) \rightarrow \overline{R \rightarrow S}$$

$$\vdash S \rightarrow [(K \rightarrow L) \rightarrow M]$$

MA 27

2002 (2)

valide

$$D \wedge G; \bar{A} \rightarrow (B \wedge D); B \leftrightarrow (D \wedge A)$$

$$\vdash \bar{B} \rightarrow [(H \wedge F) \rightarrow C]$$

MA 28

2003 (1)

valide

$$\bar{M}$$

$$\vdash [(A \rightarrow B) \rightarrow M] \leftrightarrow (A \wedge \bar{B})$$

MA 29

2003 (2)

valide

$$H \leftrightarrow A; H \rightarrow \bar{M}; (A \vee C) \rightarrow \bar{S}$$

$$\vdash (S \rightarrow M) \rightarrow (S \rightarrow \bar{H})$$

MA 30

2004 (1)

valide

$$(A \vee B) \rightarrow [(C \vee E) \rightarrow (F \wedge D)]; (D \vee G) \rightarrow L$$

$$\vdash A \rightarrow (\bar{C} \vee L)$$

MA 31

2004 (2)

valide

$$(A \wedge \bar{B}) \vee (\bar{B} \wedge E); (A \leftrightarrow B) \rightarrow (\bar{A} \rightarrow \bar{E}); \overline{A \wedge \bar{B}}$$

$$\vdash \bar{E}$$

MA 32

2005 (1)

valide

$$\begin{array}{l} \bar{S} \rightarrow \bar{R}; \bar{R} \rightarrow (\bar{T} \wedge \bar{P}) \\ \hline \vdash (T \rightarrow Q) \vee S \end{array}$$

MA 33

2006 (1)

valide

$$\begin{array}{l} \overline{A \vee E}; B \leftrightarrow A; \bar{B} \rightarrow C; \overline{C \vee D} \\ \hline \vdash D \wedge B \end{array}$$

MA 34

2006 (2)

valide

$$\begin{array}{l} (P \rightarrow Q) \rightarrow [\bar{R} \rightarrow \overline{\bar{S} \wedge \bar{T}}] \\ \hline \vdash (R \rightarrow P) \rightarrow [\bar{T} \rightarrow (\bar{S} \rightarrow P)] \end{array}$$

MA 35

2007 (1)

valide

$$\begin{array}{l} \bar{A} \rightarrow \bar{B}; B \vee (\bar{C} \wedge \bar{D}) \\ \hline \vdash (\bar{C} \vee E) \vee A \end{array}$$

MA 36

2007 (2)

valide

$$\begin{array}{l} A; B; A \rightarrow D; \overline{B \wedge E}; (D \wedge \bar{E}) \rightarrow \bar{F}; \bar{F} \rightarrow G \\ \hline \vdash G \end{array}$$

