(a) If Bob Woodward has the right sources then Henry Kissinger either advises the White House or is not retired. But Henry Kissinger is retired. So, Bob Woodward does not have the right sources.
(1) Symbolization:
(2) Proper logical form of the argument:
(3)


Summary truth table:


Is it a counterexample row?
O yes
O no
O yes
O yes O no
O yes O no
O yes Ono
O yes O no
O yes O no
$O$ yes $O$ no
(4) The argument form is $\qquad$ (5) because $\qquad$
$\qquad$
(6) The argument is $\qquad$ because $\qquad$
(b) If Russia joins the European Union (the EU) then, if Rumania joins the EU then Bulgaria will join the EU. Rumania will join the EU. So if Bulgaria does not join the EU then Russia did not join the EU either.
(1) Symbolization:
(2) Proper logical form of the argument:
(3)


Summary truth table:


Is it a counterexample row?

| $O$ yes | $O$ no |
| :--- | :--- |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |

(4) The argument form is $\qquad$ (5) because $\qquad$
$\qquad$
(6) The argument is $\qquad$ because $\qquad$
(c) If Russia does not join the European Union (the EU) then, if Rumania joins the EU then Bulgaria will not join the EU. Rumania will join the EU. So if Bulgaria joins the EU then Russia will join the EU as well.
(1) Symbolization:
(2) Proper logical form of the argument:
(3)


Summary truth table:


Is it a counterexample row?

| $O$ yes | $O$ no |
| :--- | :--- |
| $O$ yes | $O$ no |
| O yes | $O$ no |
| O yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| O yes | $O$ no |
| $O$ yes | $O$ no |

(4) The argument form is $\qquad$ (5) because $\qquad$
$\qquad$
(6) The argument is $\qquad$ because $\qquad$
(d) If the US builds the wall on the Mexican border, then the illegal immigration problem will be solved. If the US builds the wall on the Mexican border, then the diplomatic relations between the USA and Mexico will suffer. So, if the illegal immigration problem will be solved then the diplomatic relations between the USA and Mexico will suffer.
(1) Symbolization:
(2) Proper logical form of the argument:
(3)


Summary truth table:

(4) The argument form is $\qquad$ (5) because $\qquad$
(6) The argument is $\qquad$ because $\qquad$
(e) If the US builds the wall on the Mexican border, then the illegal immigration problem will be solved provided that the immigrants do not find some other way to get into the US. However, the diplomatic relations between the USA and Mexico will suffer if the US builds the wall on the Mexican border. So, if the US builds the wall on the Mexican border, then the illegal immigration problem will be solved but the diplomatic relations between the USA and Mexico will suffer.
(1) Symbolization:
(2) Proper logical form of the argument:
(3)

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Summary truth table:

(4) The argument form is $\qquad$ (5) because $\qquad$
$\qquad$
(6) The argument is $\qquad$ because $\qquad$
(f) If the universe is essentially deterministic then all of a person's actions can be predicted in advance. If people are entirely rational then all of a person's actions can be predicted in advance. Thus, if people are entirely rational then the universe is not essentially deterministic.
(1) Symbolization:
(2) Proper logical form of the argument:
(3)


Summary truth table:


Is it a counterexample row?

| $O$ yes | $O$ no |
| :--- | :--- |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |
| $O$ yes | $O$ no |

(4) The argument form is $\qquad$ (5) because $\qquad$
$\qquad$
(6) The argument is $\qquad$ because $\qquad$
(g) You should file either tax form 12A or tax form 12C on this year's return only if you filed tax form 40B on your last year's return. You should file form 12A on this year's return only if your income was over $\$ 40000$, and you should file tax form 12C only if your income did not exceed $\$ 40000$. So, if your income exceeded $\$ 40000$, then you must file tax form 12A.

[^0]
## (2) Proper logical form of the

 argument:

Summary truth table:


Is it a counterexample row?

(4) The argument form is $\qquad$ (5) because $\qquad$
$\qquad$
(6) The argument is $\qquad$ because $\qquad$


[^0]:    (1) Symbolization:

