More Practice Modal Problems.

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Note, there are practice problems in 2012 folder.

1 Exercise

- (1) $\Box(A \cdot B) \equiv \Diamond(B \supset \sim C)$
- (2) $\sim (\lozenge \sim A \cdot (\Box (B \equiv C)))$
- (3) $\Diamond A \supset \Box B$

$$[.:. \diamond \sim C$$

2 Exercise

(INVALID)

- (1) $\Box(A \supset \Diamond(B \cdot C))$
- (2) $\sim C \equiv (\lozenge C)$

$$[:: (\sim \Diamond (A \cdot B)) \supset \sim A]$$

3 Exercise

- (1) $\square[A\supset\square(B\equiv\sim C)]$
- (2) $[\lozenge(D \equiv C)] \supset [\Box B \supset \lozenge A]$
- (3) $[\lozenge \sim B] \supset [\square \sim D]$

$$[\therefore [\lozenge(\sim D \cdot C)] \vee (\square \sim C)$$

4 Exercise

- (1) $(A\supset F)\lor\Diamond[A\equiv\Diamond(F\cdot\thicksim D)]$
- (2) $\Box(F\supset D)$
- (3) $\Diamond F \supset \Box \sim (A \cdot D)$
- $[.:. \diamond \sim A$