

### 3.1

If you do your homework, you may play frisbee (H: You do your homework. F: You play frisbee.)

$$H \rightarrow \Diamond F$$

### 3.4

It's possible, pig – I might be bluffing (Princess Bride) (B: I am bluffing.)

$$\Diamond B \text{ OR } \neg \Box \neg B$$

### 3.5

It ain't necessarily so. (S: It is so.)

$$\neg \Box S \text{ OR } \Diamond \neg S$$

### 3.7

If it is so, it may be, and if it must be, so it is. (S: It is so.)

$$[S \rightarrow \Diamond S] \wedge [\Box S \rightarrow S]$$