TFL Syntax Exercise
PHI 154 (Eliot) 2021

1. Which of the following are sentences of Truth-functional Logic (TFL)? Indicate with
a ✓ or × whether each of these is a sentence of TFL. For this exercise, you may use
the relaxed bracketing conventions described in *forallx* 6.3

    This should overall be an easy and quick exercise for you, but it is designed to get
you used to spotting well-formed and poorly-formed sentences of TFL, and to see if
there are any cases you're not sure about.

    (a) $P \wedge Q$
    (b) $X \vee Z$
    (c) $\neg Q \vee R$
    (d) $\neg\neg S \wedge \neg T$
    (e) $\wedge R$
    (f) $M \vee D\neg$
    (g) $\neg R \wedge S$
    (h) $N \neg O$
    (i) $Q \vee t$
    (j) $(P \vee Q) \vee (M \vee N)$
    (k) $H \vee \neg J$
    (l) $B \vee C \vee D$
    (m) $\neg\neg\neg\neg\neg D$
    (n) $(M \vee B)$
    (o) $\neg[R \wedge F]$
    (p) $[G \wedge (\neg H \vee (P \wedge R))] \wedge Q$
    (q) $(K \wedge L) \vee \neg\neg M$
    (r) $(K \wedge L) \vee M \wedge C$
    (s) $[P]$
    (t) $A_{611} \vee B_{12}$
    (u) $[M \vee \neg(\neg B \vee A)]$
    (v) $\neg E \wedge (\neg F \vee (G \wedge \neg H))]$