LOGIC: CONDITIONALS & BICONDITIONALS [PIRNOT 3.3]

EX 3.3.1: Construct a truth table for the logic statement: $(P \wedge Q) \longrightarrow \sim (\sim Q \vee P)$

EX 3.3.2: Construct a truth table for the logic statement: $\sim (P \longrightarrow Q) \longleftrightarrow \sim R$

EX 3.3.3: Given the statement "If cars are fast, then bicycles are slow":

    (a) Find the converse.

    (b) Find the inverse.

    (c) Find the contrapositive.

EX 3.3.4: Determine whether these two statements are logically equivalent or not:

"If hardback books are heavy, then softcover books are light",   "If softcover books are light, then hardback books are heavy"