"Ideas..." problems for tutorials week 24

I-24.1. Rewrite the natural statement "You will receive a fine if you break a speed limit" in the form $P \Rightarrow Q$, explaining what P and Q are. Assuming that this 'theorem' is true, what is a necessary condition, and for what, in this implication? what is a sufficient condition, and for what?

I-24.2. Use truth table to show that the statements are logically equivalent:
$P \Rightarrow (Q \Rightarrow R)$ and $(P \wedge Q) \Rightarrow R$.

I-24.3. Let $A = \{x \in \mathscr{U} \mid P(x) \text{ is true}\}$ and $B = \{x \in \mathscr{U} \mid Q(x) \text{ is true}\}$. Depict the sets $\mathscr{U}$, A, and B by using Venn diagrams. Determine the set
$\{x \in \mathscr{U} \mid P(x) \Rightarrow Q(x) \text{ is true}\}$ on this diagram.