3. If P is false, then $P \wedge Q$ is false. If the original statement is true, then both sides of \iff must be equal, i.e. $(R \implies S)$ must be false too. For an implication to be false, then

$$R = \text{true}$$

 $S = \text{false}$

It's impossible to know what Q is as P is false and $P \wedge Q$ will always be false regardless of Q's value.