

Alternate answer to 5b

	[*] P	q	[★] r	[*] P → q	[*] ¬q ∨ r
①	T	T	T	T	T
	T	T	F	T	F
	T	F	T	F	X
	T	F	F	F	X

← eliminate this row b/c $\boxed{\neg q \vee r \equiv F}$

← eliminate these rows b/c $\boxed{P \rightarrow q \equiv F}$

^{*} Hypotheses

[★] Conclusion

Note: Do you understand why column ONLY has T's?

So, row ① is the only row with all hypotheses true.
In this case, the conclusion is true. So the argument is valid.