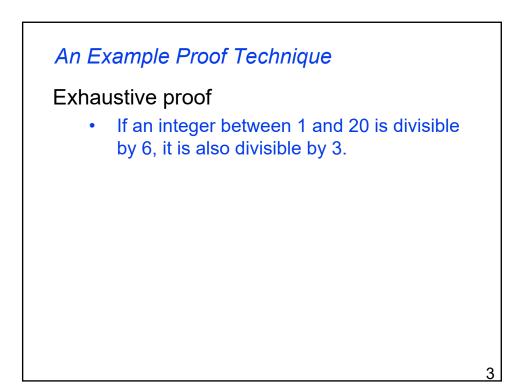
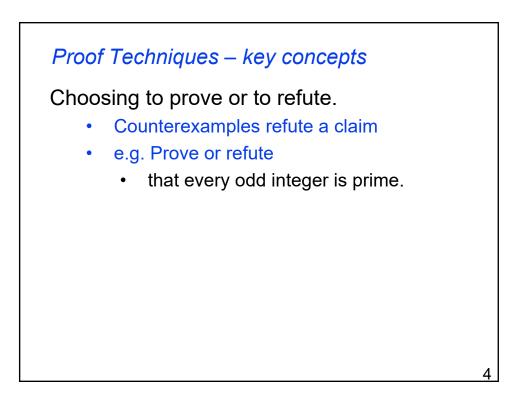
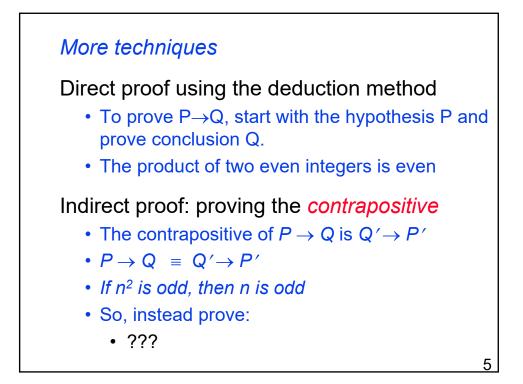
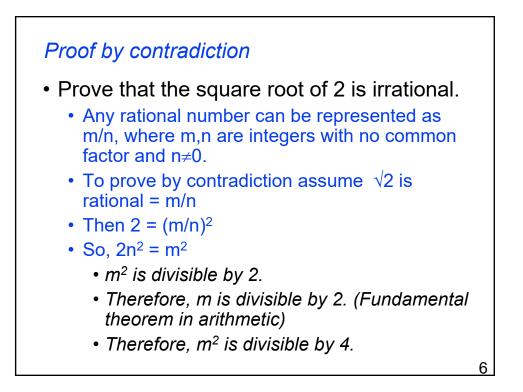


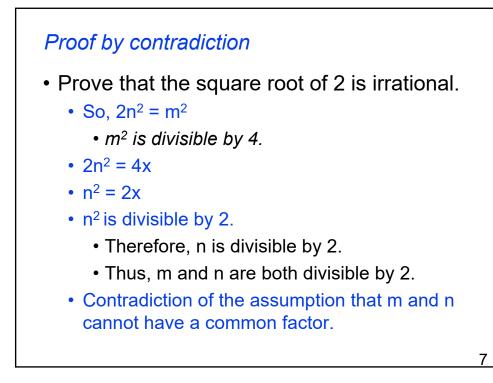
Proofs — key concepts		
Formal vs. informal proofs.		
Inductive vs. Deductive reasoning.		
• <u>Claim</u> : $n^2 - n + 41$ is prime		
n	$n^2 - n +$	41
1	41	
2	43	Inductive reasoning might
3	47	<u>But</u> : is there a counter-example?
4	53	
5	61	
		2

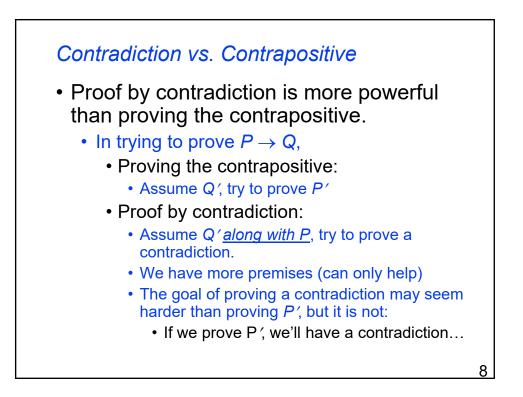


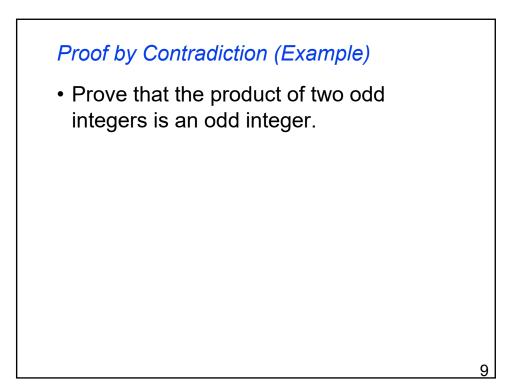


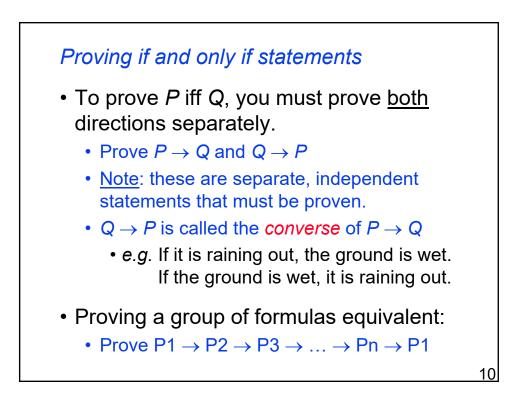


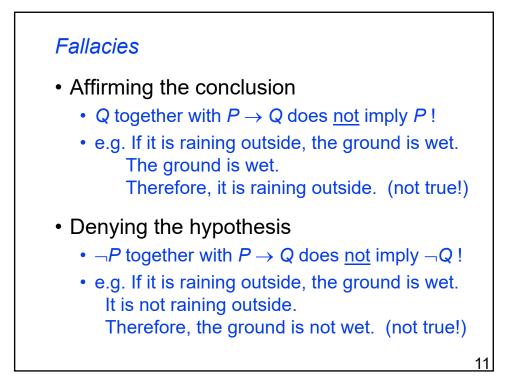


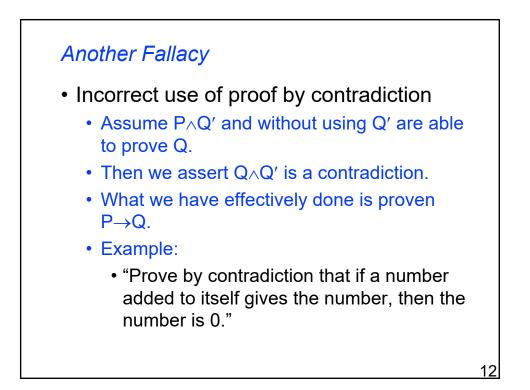












Example

a) Draw conclusion(s) using rules of inference for the following statement.

"If I play hockey, then I am sore the next day." "I use the whirlpool if I am sore." "I did not use the whirlpool."

 b) Construct an argument using the rules of inference to show that the hypothesis "Randy works hard", "If Randy works hard, he is a dull boy", "If Randy is a dull boy, then he will not get the job" imply the conclusion "Randy will not get the job"

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