

1.4 Proving Conjectures: Deductive Reasoning

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deductive reasoning: drawing a specific conclusion through logical reasoning by starting with general assumptions that are known to be valid.

Ex. 1

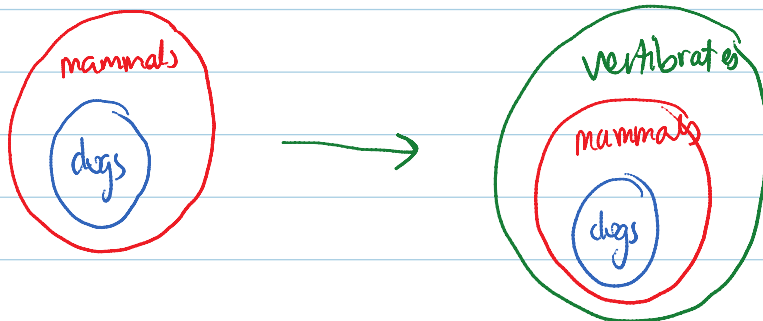
All dogs are mammals
All mammals are vertebrates
Shaggy is a dog.

} - statements

What can be deduced about Shaggy?

→ can it be a mammal?
→ can it be a vertebrate

Represent this using a Venn diagram.



Therefore, through deductive reasoning, Shaggy is a mammal and a vertebrate.

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