

## MAT 142 - Syllogisms

Draw a valid conclusion

Venn Diagrams

1. All dogs are canines  
A poodle is a dog
2. All math instructors are men  
I am a math instructor
3. No snakes are mammals  
A cobra is a snake
4. No snakes are mammals  
A human is a mammal

Is is valid or invalid??

5. Some houses are brick  
I have a house  
My house is brick
6. All cars are white  
You have a car  
Your car is white
7. Some men have moustaches  
Some men have children  
Some men with moustaches have children
8. All rectangles are quadrilaterals  
A square is a quadrilateral  
A square is a rectangle