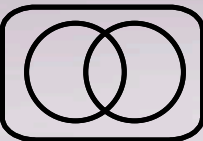
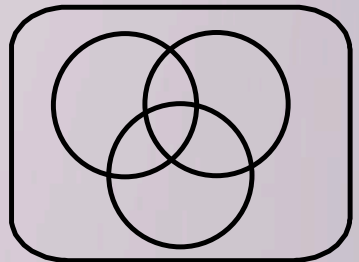


$\approx$   $\{ \}$   $\sqrt{\quad}$    $\infty$   $\Sigma$   $\pi$

$\{U, n, \emptyset\}$

# Math 1030 #1b



Sets and Venn Diagrams

Categorical Propositions

Propositions make claims about sets.

Vocabulary

Let S = subject set and P = predicate set.

Four Standard Categorical Propositions

Examples

All S are P

All whole numbers are integers.



No S are P

No odd numbers are divisible by 2.



Some S are P

Some mathematicians are women.



Some S are not P

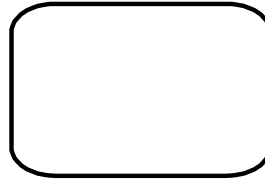
Some retired people do not work at Walmart.



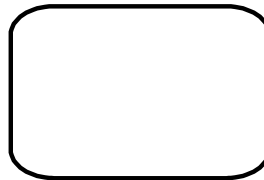
EXAMPLE 1:

Draw a Venn Diagram  
State the subject and predicate sets

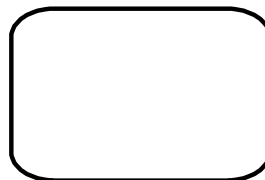
a) Every poodle is a dog.



b) Some movie stars are redheads.



c) Monkeys don't gamble.



d) Some people don't like chocolate.

