Name :

Math 170-1 -
Write down an example of a set.

Is the following statement true for sets $A, B$ and $C$ ?
$(A \cap B) \cup(B \cap C) \cup(A \cap C)=\{x \mid x$ is an element of two of $A, B$ and $C$, but not the third $\}$

For three positive integers $a, b, c$, when is there a triangle with sides of length a, b and c. No proof necessary, make a visual argument.

What is the sum of the angles inside a regular n-gon. hint: try to elongate one of the sides and look at the remaining angle.

Show that $\sqrt{3}$ is not rational.

State and prove Pythagoras' theorem.

