

January 23, 2008

Problems :

1. Show that $\sqrt{3}$ is irrational.
2. Prove that a number is divisible by 4 if and only if its last 2 digits are divisible by 4.

Consider the following statements. Write down the contrapositive and the converse of each one of them.

- All humans are mortal.
- Every continuous functions on the interval $[0,1]$ attains its maximum.