MATHEMATICS MADE EASY BY MARY M J

CHAPTER 14. MATHEMATICAL REASONING

Focus Area Based Practice Questions

- 1. Consider the statement, P: If x=2, then $x^2=4$. Write corresponding contrapositive statement of P.
- 2. a) Write the contrapositive of the given statement. "If a number is divisible by 9, then it is divisible by 3".
 - b) Verify by the method of contradiction : "p: $\sqrt{7}$ is irrational".
- 3. a) Write the contra positive of the statement: "If the integer n is odd, then n^2 is odd".
 - b) Verify by the method of contradiction:

"p:
$$\sqrt{5}$$
 is irrational".

- 4. a) Which one of the following sentences is a statement.
 - i) 275 is a perfect square.
 - ii) Mathematics is difficult subject.
 - iii) Answer this question.
 - iv) Today is a rainy day
 - b) Write the negation of the statement: "Every natural number is greater than zero".
- 5. a) Write the negation of the statement: "the sum of 3 and 4 is 7".
 - b) Write the converse of the statement "if a number n is even, then n^2 is even.

MATHEMATICAL REASONING FOCUS AREA VIDEO LINK:

https://youtu.be/QpaWeYdck6Y