

## [NCERT/CBSE MATHEMATICS CLASS 11 textbook](http://www.TutorBreeze.com)

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MISCELLANEOUS EXERCISES

Answers to NCERT/CBSE MATH (Class XI) textbook

Chapter 14.

### **MATHEMATICAL REASONING**

4. Rewrite each of the following statements in the form “ $p$  if and only if  $q$ ”

(i)  $p$ : If you watch television, then your mind is free and if your mind is free, then you watch television.

(ii)  $q$ : For you to get an A grade, it is necessary and sufficient that you do all the homework regularly.

(iii)  $r$ : If a quadrilateral is equiangular, then it is a rectangle and if a quadrilateral is a rectangle, then it is equiangular.

#### **Solution:**

(i) **You watch a television if and only if your mind is free.**

(ii) **You will get a grade A if and only if you do all the homework regularly.**

(iii) **A quadrilateral is equiangular if and only if it is a quadrilateral.**

Please do not copy the answer given here

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