

[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

1. Write the negation of the following statements:

(i) p : For every positive real number x , the number $x - 1$ is also positive.

(ii) q : All cats scratch.

(iii) r : For every real number x , either $x > 1$ or $x < 1$.

(iv) s : There exists a number x such that $0 < x < 1$.

Solution:

(i) $\sim p$: There exists at least one positive real number x for which $x-1$ is not positive.

(ii) $\sim q$: All cats do not scratch.

(iii) $\sim r$: There exists at least one real number x such that neither $x > 1$ or $x < 1$.

(iv) $\sim s$: There exists at least one real number x such that neither $x > 1$ or $x < 0$.

Please do not copy the answer given here

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