Quiz No.15

student:

Every problem in this quiz ask you to give an example of a sequence satisfying some conditions.

All sequences should be specified by giving the respective general term.

Problem 1: Give an example of constant sequence.

Problem 2: Give an example of a divergent sequence.

Problem 3: Give an example of nonconstant sequence converging to 5.

Problem 4: Give an example of a strictly decreasing sequence which converges to π .

Problem 5: Give an example of a nonconstant sequence that converges to 1, and is neither decreasing, nor increasing.

Problem 6: Give an example of a sequence which has terms as big as wished, and is not an increasing sequence.

Problem 7: Give an example of a nonconstant bounded sequence.

Problem 8: Give an example of a divergent bounded sequence.

Problem 9: Give an example of a sequence which has among its terms the numbers -2 and 1.

Problem 10: Give an example of a convergent sequence which has among its terms the numbers -2 and 1.