

4 **SAMPLE ARTICLE BASED ON dmdico CLASS**

5 JOHN RAMBO

6 *Affiliation line 1*
7 *Affiliation line 2*
8 *Affiliation line 3*

9 **e-mail:** Author1Email@domain.com

10 AND

11 JOHN McCLANE

12 *Affiliation line 1*
13 *Affiliation line 2*
14 *Affiliation line 3*

15 **e-mail:** Author2Email@domain.com

16 **Abstract**

17 This sample article contains typical elements of article: definitions, the-
18 orems, proofs etc.

19 **Keywords:** Type Keywords of your paper here.

20 **2020 Mathematics Subject Classification:** Type 2020 Mathematics
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22 1. INTRODUCTION

23 Here we have some definitions.

24 **Definition** [1]. A graph is said to be *embeddable in the plane* or *planar*, if it can
25 be drawn in the plane so that its edges intersect only at their ends.

26 **Theorem 1.** K_5 is not planar.

27 **Proof.** See [1].

28 ■

Theorem 2 (Eulers's formula). *If G is a connected plane graph, then*

$$v - e + f = 2,$$

where v – number of vertices of G , e – number of edges of G and f – number of faces of G .

Proof of Euler's formula. See [1].

■

Theorem 3 (Kuratowski). *A graph is planar if, and only if it contains no subdivision of K_5 or $K_{3,3}$.*

Proof of Kuratowski's theorem. In the proof we need two lemmatas:

Lemma 4. *Lemma 1.*

Proof of lemma 4. Proof inside other proof is ended with white square.

□

Lemma 5. *Lemma 2.*

Proof of lemma 5. This is a proof for second lemma.

□

Here should be a proper proof.

■

Remark 6. Example of remark. Remarks, examples, notes and problems are displayed with non-italic font, like definitions, but with numbers.

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