

**ZMATH 2010b.00513**

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**Real toric surfaces.**

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Summary: The authors prove that every real toric smooth orientable surface is topologically a torus. The presentation is self-contained and uses no prior knowledge of toric varieties. The paper is organized into four sections as follows: construction of toric variety, the fan of the orientable toric surface, constructing a variety from the fan.

*Classification:* H75

*Keywords:* algebraic geometry; algebraic manifold