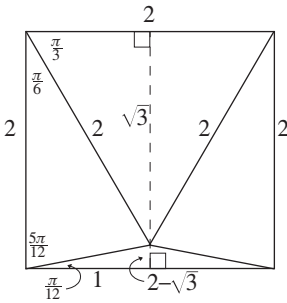


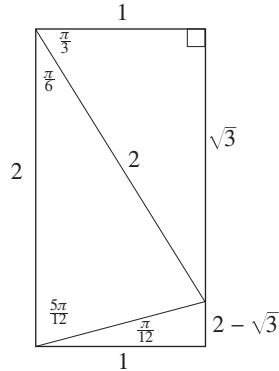
Feedback

On Feedback for July 2022: Nick Lord writes: Martin Lukarevski, in his response to ‘What makes a good Proof without Words’, challenges the reader to come up with a visual demonstration of the identity $\tan \frac{\pi}{12} = 2 - \sqrt{3}$. Here are some of my thoughts.

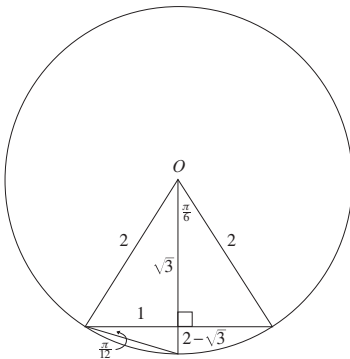
Proof 1:



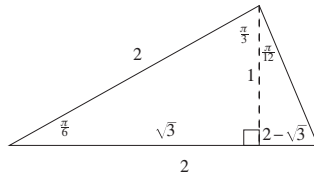
Proof 2 (variation on Proof 1):



Proof 3:



Proof 4 (variation on Proof 3):



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On 106.34 Owen Toller writes: The author, Sabu Sebastian, gives an algorithm for testing divisibility by two-digit numbers. This is a topic on the OCR Further Mathematics (A) Additional Pure option, for which the only currently available textbook on the topic [1] presents an algorithm, similar but not identical to that in the Note, but without justification. The use of modular arithmetic in the Note seems rather obviously at odds with the spirit of the task—after all, if you are having to do arithmetic modulo 19 in the course of the algorithm, why not just find the remainder of the original number to that modulus?—which is avoided by that in [1]. Here we present

