Proof Without Words: Cosine Difference Identity

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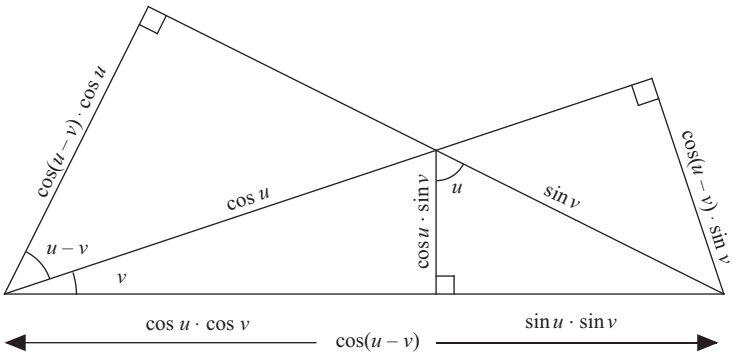

$$\cos(u - v) = \cos u \cdot \cos v + \sin u \cdot \sin v.$$

Summary. We give a visual proof of the cosine difference formula.

References

1. Y. Kobayashi, Proof without words: Tangent double angle identity, *College Math. J.* **44** (2013) 47, http://dx.doi.org/10.4169/college.math.j.44.1.47.
2. R. Nelsen, *Proofs Without Words*, Mathematical Association of America, Washington, DC, 1992, 34–35.
3. L. Wang, Proof without words: Sine sum identity, *College Math. J.* **45** (2014) 190, http://dx.doi.org/10.4169/college.math.j.45.3.190 .

http://dx.doi.org/10.4169/college.math.j.45.5.370
MSC: 51M15, 97G60