Conclusion

The last implicit supposition in our analysis was that the eigenvalues were distinct. This, at least, is not always true. What would happen if two of the eigenvalues were the same? What if all three were the same? What would that imply about the rotating object?

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REFERENCES


Proof Without Words: Sum of a Geometric Series via Equal Base Angles in Isosceles Triangles

\[
\alpha + \frac{\alpha}{2} + \frac{\alpha}{4} + \cdots = \sum_{n=0}^{\infty} \frac{\alpha}{2^n} = 2\alpha
\]

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