An overly long $\mathcal{O}(\log n / \log \log n)$ title: Don't try this at home, kids!

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Abstract

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$$\cos^3\theta = \frac{1}{4}\cos\theta + \frac{3}{4}\cos 3\theta \tag{1}$$

However, from [1] we have the following identity

$$\sum_{n\geq 0}^{k} 2^n = 2^{k+1} - 1 \qquad \text{(Duh!)}$$

$$= 2047. \qquad \text{(Since } k = 10\text{)}$$

References

[1] A. J. Figueredo and P. S. A. Wolf. Assortative pairing and life history strategy - a cross-cultural study. *Human Nature*, 20:317–330, 2009.