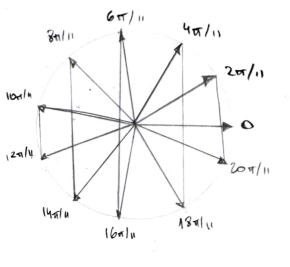
$$= \frac{1+2\cos(4\pi/11)-2\cos(8\pi/11)}{\frac{1}{2}(\cos(6\pi/11)+4)} - 1 - 8\cos(4\pi/11) + 8 = 11$$

$$\cos(4\pi/1) + \cos(6\pi/1) + \cos(6\pi/1) + 2\cos(4\pi/1)\cos(6\pi/1) = -\frac{1}{2}$$

Que é verdade pois:



$$\Rightarrow \sum_{k=0}^{ND} \cos(2k\pi/n) = 0$$

=>
$$\sum_{k=1}^{5} cos(2k\pi/1) = -1/2$$