



$$\cos(\omega n) = \cos((- \omega)n)$$

$$\cos(\alpha n) \cos(\beta n)$$

$$= \frac{1}{2} [\cos((\alpha + \beta)n) + \cos((\alpha - \beta)n)]$$

$$\cos(a) \cos(b) = \frac{1}{2} (\cos(a+b) + \cos(a-b))$$

