

$$z = \cos v + i \sin v$$

$$z^n = \cos(nv) + i \sin(nv)$$

$$\frac{1}{z^n} = z^{-n} = \cos(-nv) + i \sin(-nv) = \cos(nv) - i \sin(nv)$$

$$\begin{aligned} z^n + \frac{1}{z^n} &= \cos(nv) + i \sin(nv) + \cos(nv) - i \sin(nv) = \\ &= 2 \cos(nv) \end{aligned}$$

C-uppgift ?