

Autofocus

Q1

$$\frac{\theta_{15}}{\theta_c} = \frac{z_3}{z_4} \times \frac{z_4}{z_5} \times \frac{z_5}{z_6} \times \frac{z_7}{z_8} \times \frac{z_9}{z_{10}} \times \frac{z_{11}}{z_{12}} \times \frac{z_{12}}{z_{13}} \times \frac{z_{14}}{z_{15}} \times (-1)^7$$
$$= - \frac{z_3}{z_6} \times \frac{z_7}{z_8} \times \frac{z_9}{z_{10}} \times \frac{z_{11}}{z_{13}} \times \frac{z_{14}}{z_{15}} = -0,0052 = \rho$$

pas de la vis $\rightarrow dl = \frac{p}{2\pi} \times \theta_{15}$

$$\boxed{dl = \frac{p}{2\pi} \times \rho \times \theta_c}$$

$$\Delta dl = ?$$

codeur 30 impulsions / tour

$$\text{donc } \Delta\theta_c = \frac{2\pi}{30}$$

$$\Delta dl = \frac{p}{2\pi} \times \rho \times \Delta\theta_c$$

$$\boxed{\Delta dl = p \times \rho \times \frac{1}{30}}$$

$$\boxed{\Delta dl = 5,2 \mu\text{m}}$$

cdc positionnement $< 100 \mu\text{m}$ donc cinématique validée