

**FORMULEBLAD****1. SPANNING EN VERVORMING**

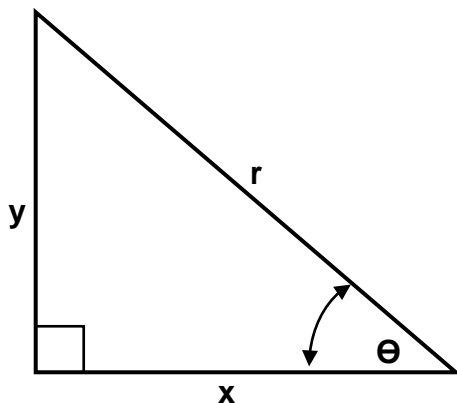
$$1.1 \quad \text{Spanning} = \frac{\text{Las}}{\text{Oppervlakte}} \quad \text{of} \quad \sigma = \frac{F}{A}$$

$$1.2 \quad \text{Young se modulus} = \frac{\text{Spanning}}{\text{Vervorming}} \quad \text{of} \quad E = \frac{\sigma}{\varepsilon}$$

$$1.3 \quad \text{Vervorming} = \frac{\text{Verandering in lengte}}{\text{Oorspronklike lengte}} \quad \text{of} \quad \varepsilon = \frac{\Delta l}{l}$$

$$1.4 \quad A_{\text{as}} = \frac{\pi D^2}{4}$$

$$1.5 \quad A_{\text{py}} = \frac{\pi (D^2 - d^2)}{4}$$

**2. STELLING VAN PYTHAGORAS EN TRIGONOMETRIE**

$$2.1 \quad \sin \theta = \frac{y}{r}$$

$$2.2 \quad \cos \theta = \frac{x}{r}$$

$$2.3 \quad \tan \theta = \frac{y}{x}$$

$$2.4 \quad r^2 = x^2 + y^2 \quad \text{of} \quad a^2 = b^2 + c^2$$

**3. PATRONE EN ONTWIKKELINGS**

$$3.1 \quad \begin{aligned} \text{Gemiddelde } \varnothing &= \text{Buite-}\varnothing - \text{Plaatdikte} \quad \text{of} \\ \text{Gemiddelde } \varnothing &= \text{Binne-}\varnothing + \text{Plaatdikte} \end{aligned}$$

$$3.2 \quad \text{Gemiddelde omtrek} = \pi \times \text{Gemiddelde } \varnothing$$