

FORMULABLAD VIR MEGANIESE TEGNOLOGIE (SWEIS- EN METAALWERK)

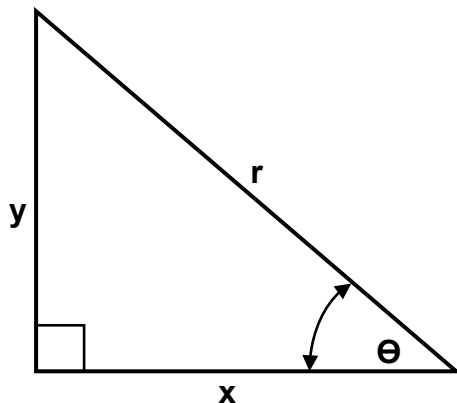
1. SPANNING EN VORMVERANDERING

1.1 $\text{Spanning} = \frac{\text{Krag}}{\text{Area}}$ of $\sigma = \frac{F}{A}$

1.2 $\text{Young se modulus} = \frac{\text{Spanning}}{\text{Vormverandering}}$ of $E = \frac{\sigma}{\epsilon}$

1.3 $\text{Vormverandering} = \frac{\text{Verandering in lengte}}{\text{Oorspronklike lengte}}$ of $\epsilon = \frac{\Delta l}{l}$

2. STELLING VAN PYTHAGORAS EN TRIGONOMETRIE



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

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

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

2.4 $r^2 = x^2 + y^2$ of $a^2 = b^2 + c^2$

3. MAATVORMS EN ONTWIKKELINGS

3.1 $\text{Gemiddelde } \phi = \text{Buite } \phi - \text{Plaatdikte}$ of
 $\text{Gemiddelde } \phi = \text{Binne } \phi + \text{Plaatdikte}$

3.2 $\text{Gemiddelde omtrek} = \pi \times \text{Gem } \phi$