

### Goniometrie

$$\sin(t+u) = \sin(t)\cos(u) + \cos(t)\sin(u)$$

$$\sin(t-u) = \sin(t)\cos(u) - \cos(t)\sin(u)$$

$$\cos(t+u) = \cos(t)\cos(u) - \sin(t)\sin(u)$$

$$\cos(t-u) = \cos(t)\cos(u) + \sin(t)\sin(u)$$

$$\sin(2t) = 2\sin(t)\cos(t)$$

$$\cos(2t) = \cos^2(t) - \sin^2(t) = 2\cos^2(t) - 1 = 1 - 2\sin^2(t)$$