



Oscar Romero College

Campus Talen & Exacte Wetenschappen

Vak: Wiskunde

Leerkracht: Sven Mettepenningen

Cyclometrische functies

1. Bereken zonder je rekenmachine:

a) ★ $\sin\left(\text{Bgc}\cos\frac{12}{13}\right)$

b) ★ $\cos\left(2\text{Bgtan}\frac{1}{5}\right)$

c) ★★ $\sin\left(\text{Bgc}\cos\frac{28}{53} + \text{Bgtan}\frac{56}{33}\right)$

d) ★★ $\tan\left(\text{Bgsin}\frac{1}{\sqrt{5}} - 2\text{Bgtan}(-3)\right)$

2. Bereken zonder je rekenmachine:

a) ★ $\text{Bgsin}\frac{\sqrt{2}}{2}$

b) ★ $\text{Bgtan}\left(-\frac{\sqrt{3}}{3}\right)$

c) ★★ $\text{Bgc}\cos\left(\cos\left(\frac{7\pi}{6}\right)\right)$

d) ★★ $\text{Bgtan}\frac{1}{4} + \text{Bgtan}\frac{3}{5}$

e) ★★★ $2\text{Bgtan}5 - \text{Bgtan}\frac{7}{17}$

f) ★★ $\text{Bgsin}\frac{1}{\sqrt{5}} + \text{Bgtan}\frac{1}{3}$

3. ★★★ Los de volgende vergelijking op: $\text{Bgsin}x + \text{Bgsin}\frac{8}{17} = \frac{\pi}{6}$

Veel succes!

1.	a) $\frac{5}{13}$ b) $\frac{12}{13}$ c) $\frac{3053}{3445}$ d) $-\frac{2}{11}$
2.	a) $\frac{\pi}{4}$ b) $-\frac{\pi}{6}$ c) $\frac{5\pi}{6}$ d) $\frac{\pi}{4}$ e) $\frac{3\pi}{4}$ f) $\frac{\pi}{4}$
3.	$x = \frac{15 - 8\sqrt{3}}{34}$