

PATH 12 - Ch 6 - ACTIVITIES

Act 1

(3) a) $28,5^\circ : \frac{0,5^\circ}{1^\circ} = \frac{x'}{60'} \Leftrightarrow x = 30'$ resp: $28^\circ 30'$

c) $34^{\circ}23'41''$: $34^{\circ} + \frac{23}{60} + \frac{41}{3600} \approx 34,39^{\circ}$

Act 2

30 [m] en doet

$$\left. \begin{array}{l} 30 \text{ [m] en haut} \\ 2\pi r = 2\pi \cdot 0,3 \text{ [m] par tour} \end{array} \right\} \Rightarrow 15,915 \dots \text{ tours}$$

on garde en nombre la partie fractionnaire : $x = 0,9115...$

$$\frac{x^\circ}{360^\circ} = \frac{x}{1} \Leftrightarrow x \approx 329,58^\circ$$

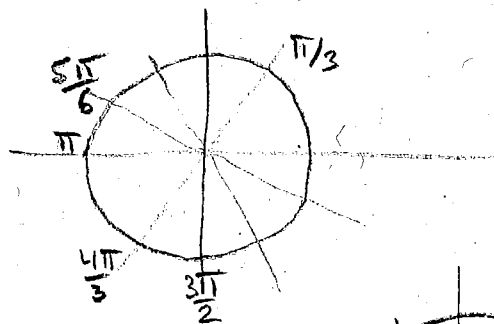
arrondi à l'entier : $x = 330^\circ$



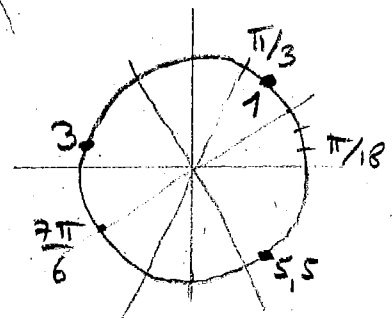
non rispetto la verticale: 30° (ou 150° !)

Aut 3

7	$\frac{\pi}{3}$	$\frac{3\pi}{2}$	π	$\frac{4\pi}{3}$	$\frac{5\pi}{6}$
	60°	270°	180°	240°	150°



$\frac{\pi}{3}$	$\frac{2\pi}{6}$	$\frac{\pi}{12}$	1	3	5, 5
60°	210°	10°	$\sim 57,3^\circ$	$\sim 171,9^\circ$	$\sim 315,1^\circ$



11) a) $\frac{\pi}{6}, \frac{2\pi}{3}, \frac{4\pi}{3}, \frac{7\pi}{12}$

b) $\frac{\pi}{6}$; $\frac{10\pi}{9}$; $\frac{\pi}{180}$; $\frac{13\pi}{720}$; $\frac{61\pi}{90}$; 0,268; 0,901

" " " " "

0,524 3,431 0,017 0,057 2,129

$$\boxed{12} \quad \frac{\alpha^\circ}{360^\circ} = \frac{\alpha [\text{rad}]}{2\pi [\text{rad}]} \quad \text{d'ou} \quad \alpha^\circ = \frac{\alpha [\text{rad}] \cdot 180}{\pi}$$

$$\lambda(\text{nm}) = \lambda \cdot 10^3$$