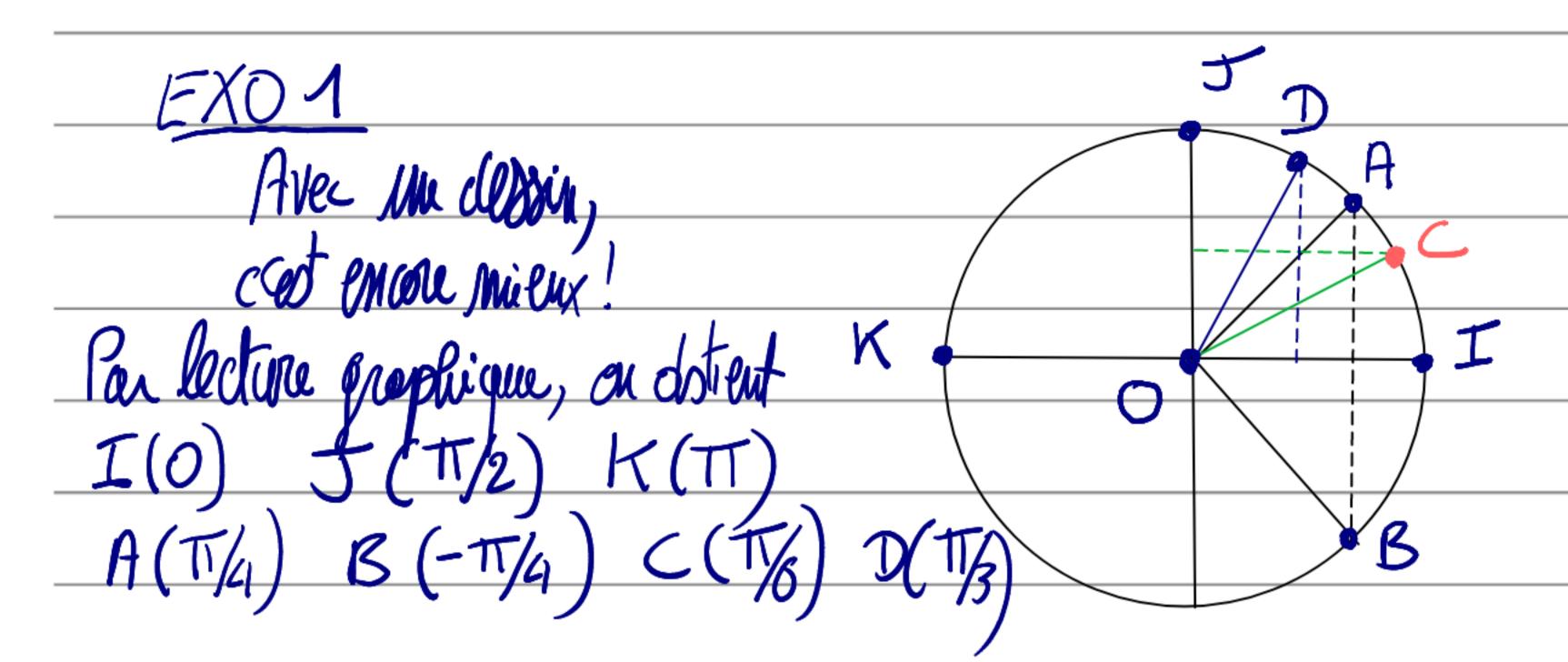
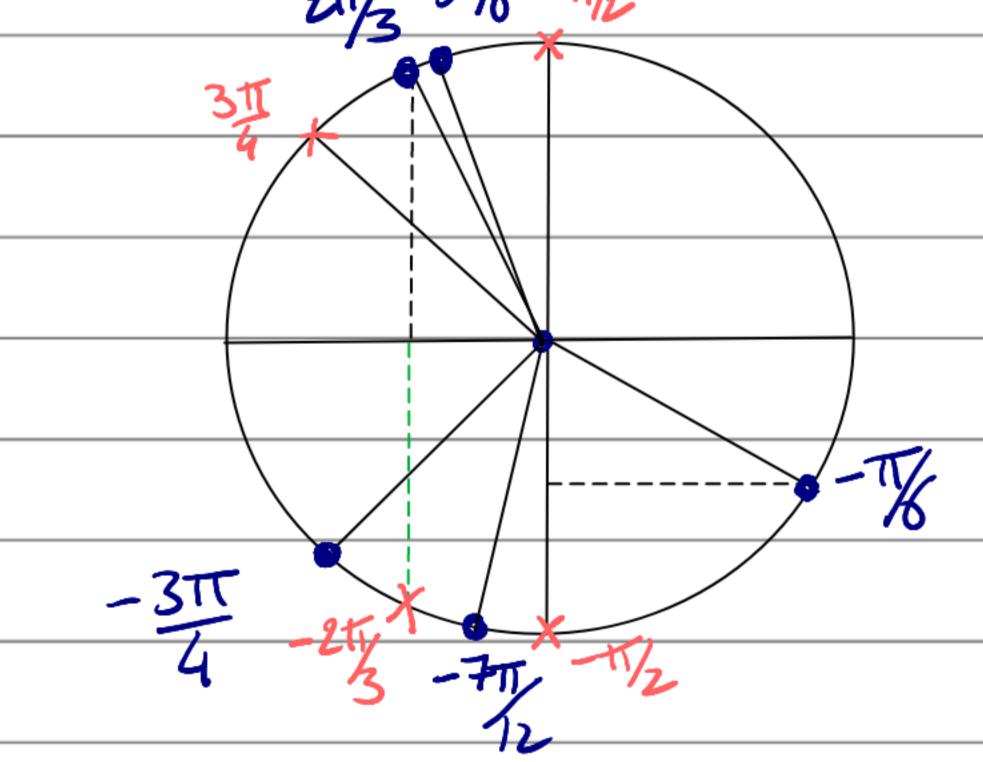
CHAPITRE 2



EXO 2

Pour les éles clemies, notes que



21 = 16T of 5T = 15T 3 24 8 24

EXO 3

This simple: does sharpe cos, or de coyox le cercle en n ance de m bonquelly donc les abscisses curviliques des sommets sont 2 TR avec 0 < R < m-1

(a)
$$(05)(5\pi) = (05)(5\pi - 2\pi) = (05)(-\pi) = (05)(\pi) = (15)(\pi) = (1$$

(b)
$$13TI - 4TI = 13 - 16 TI = -3TI date $13TI = -3TI + 4TI$
of $Din (13TI) = Din (-3TI) = Din (TI) = -Din (TI)$$$

(c)
$$\cos(-5\pi) = \cos(5\pi) = \cos(\pi - \pi) = -\cos(\pi) = -\sqrt{5}$$

(d)
$$\frac{20}{3} - 6 = \frac{2}{3} done dia(20T) = Dia(2T + 6T) = Dia(2T) = Dia(2T$$

(c)
$$(60)(\frac{717}{3}) = (60)(\frac{1}{3} + 217) = (60)(\frac{1}{3}) = \frac{1}{2}$$

(g)
$$1651 \mid 6$$
 $1651 \mid 276 = 1651 - 1656 = -5$
 $1651 \mid 6$
 $1651 \mid 276 = 1651 - 1656 = -5$
 $1651 \mid 6$
 $1651 \mid$

$$(R) - \frac{19}{6} + 4 = \frac{5}{6} done Sin (-\frac{19\pi}{6}) = Sin (\frac{5\pi}{6} - 4\pi) = Sin (\frac{5\pi}{6}) = Sin (\frac{7\pi}{6})$$

$$=50\% = \frac{1}{2}$$

ce qui pernet de calcular les cos, pin et tour de ces réals grâce oux formules d'adobition....

$$\begin{array}{c}
(\omega)\left(\frac{T}{12}\right) = \omega\left(\frac{T}{4} - \frac{T}{8}\right) = \omega\left(\frac{T}{4} - \frac{1}{8}\right) = \omega\left(\frac{T}{4} + \frac{1}{2}\right) \frac{T}{4} + \frac{1}{2} \frac{T}{2} \frac{T}{2} + \frac{1}{2} \frac{T}{2} \frac{T}{2}$$

$$\frac{EXO6}{(a)} (\omega)(x-T) = (\omega)(x+T) = (\omega)(x)$$

$$\frac{\pi}{12} = \frac{\pi}{12} + 2\pi$$

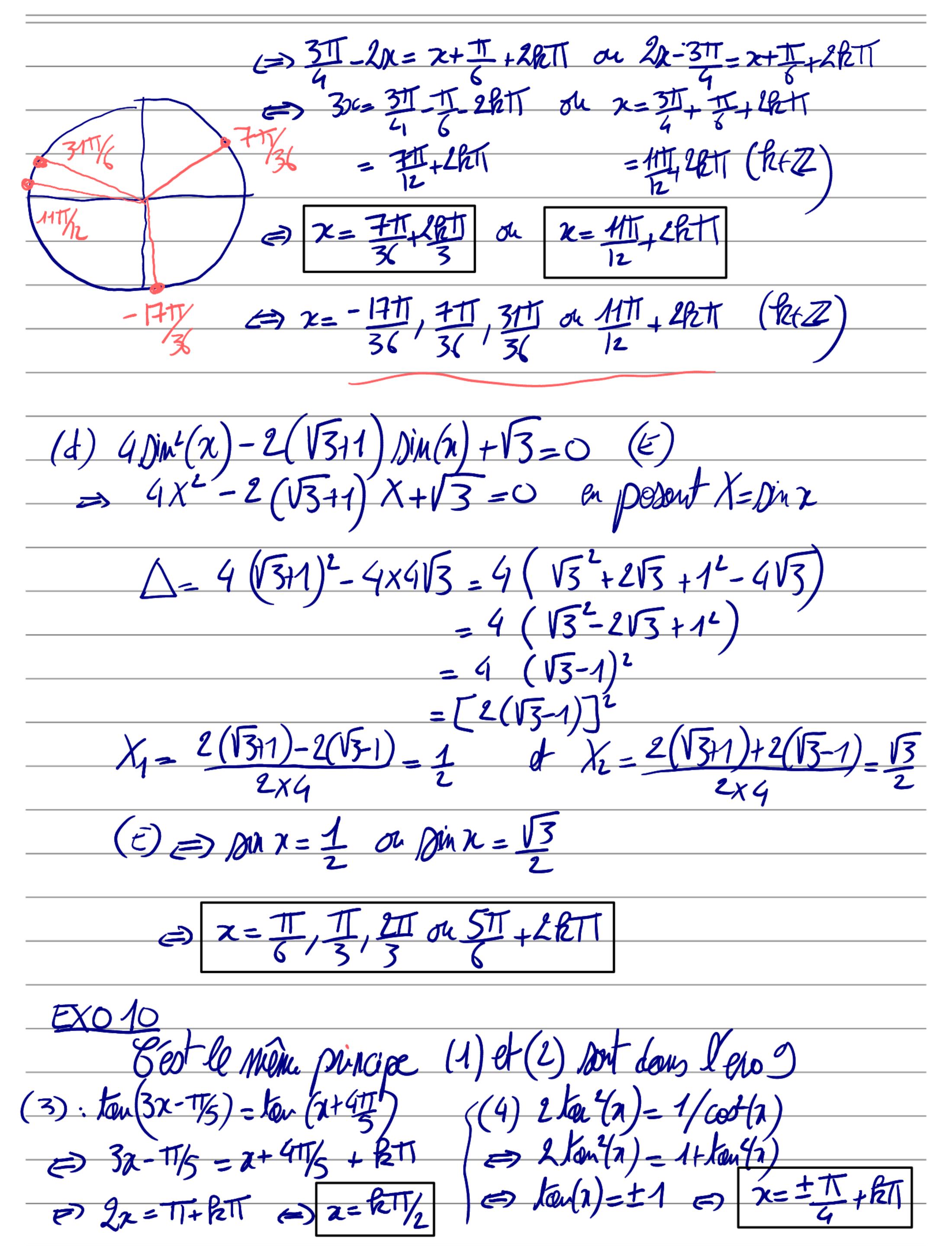
$$\frac{\pi}{12} = \frac{\pi}{12} - 4\pi$$

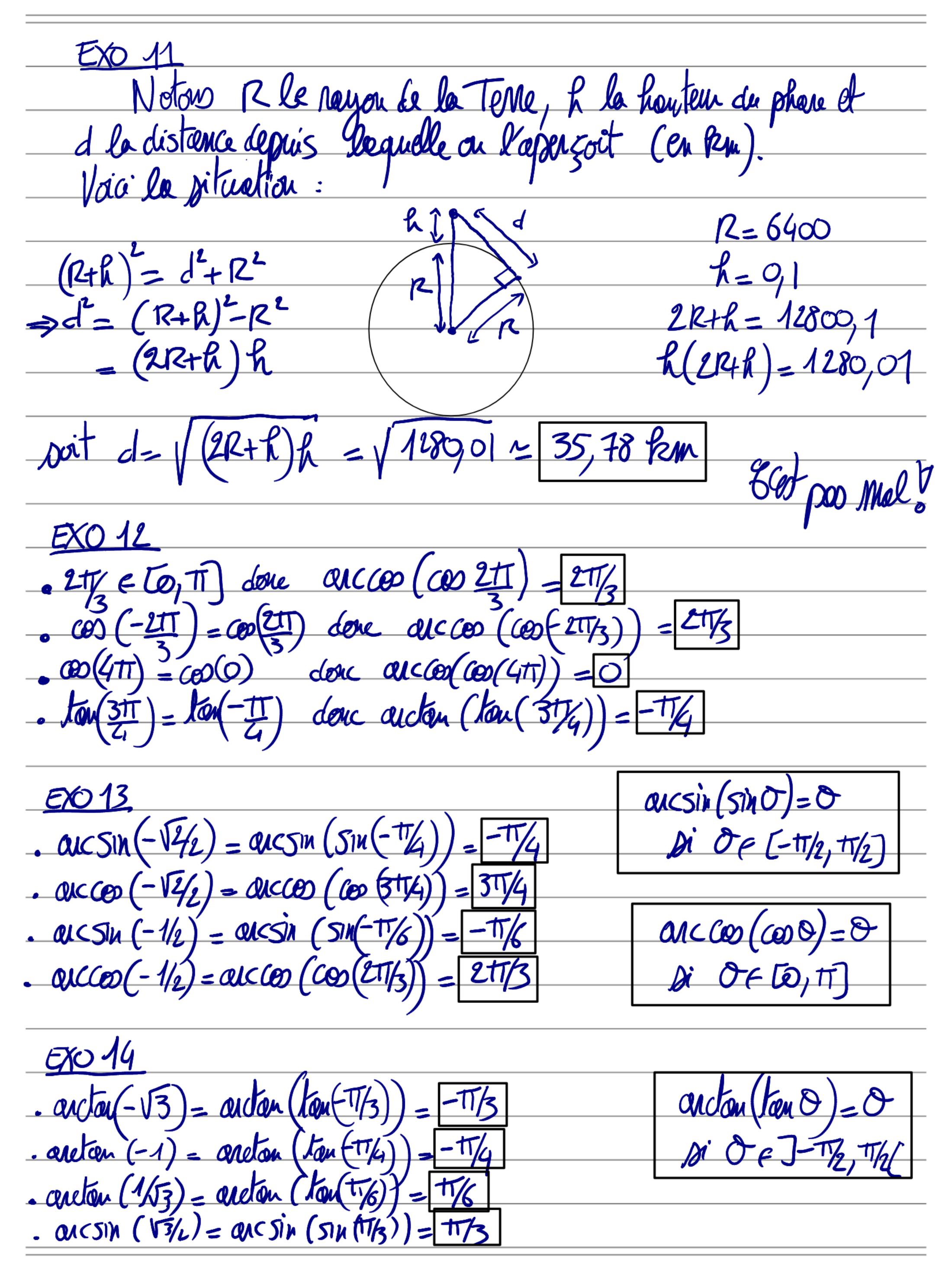
$$\frac{\pi}{12} = \frac{\pi}{12} - 4\pi$$

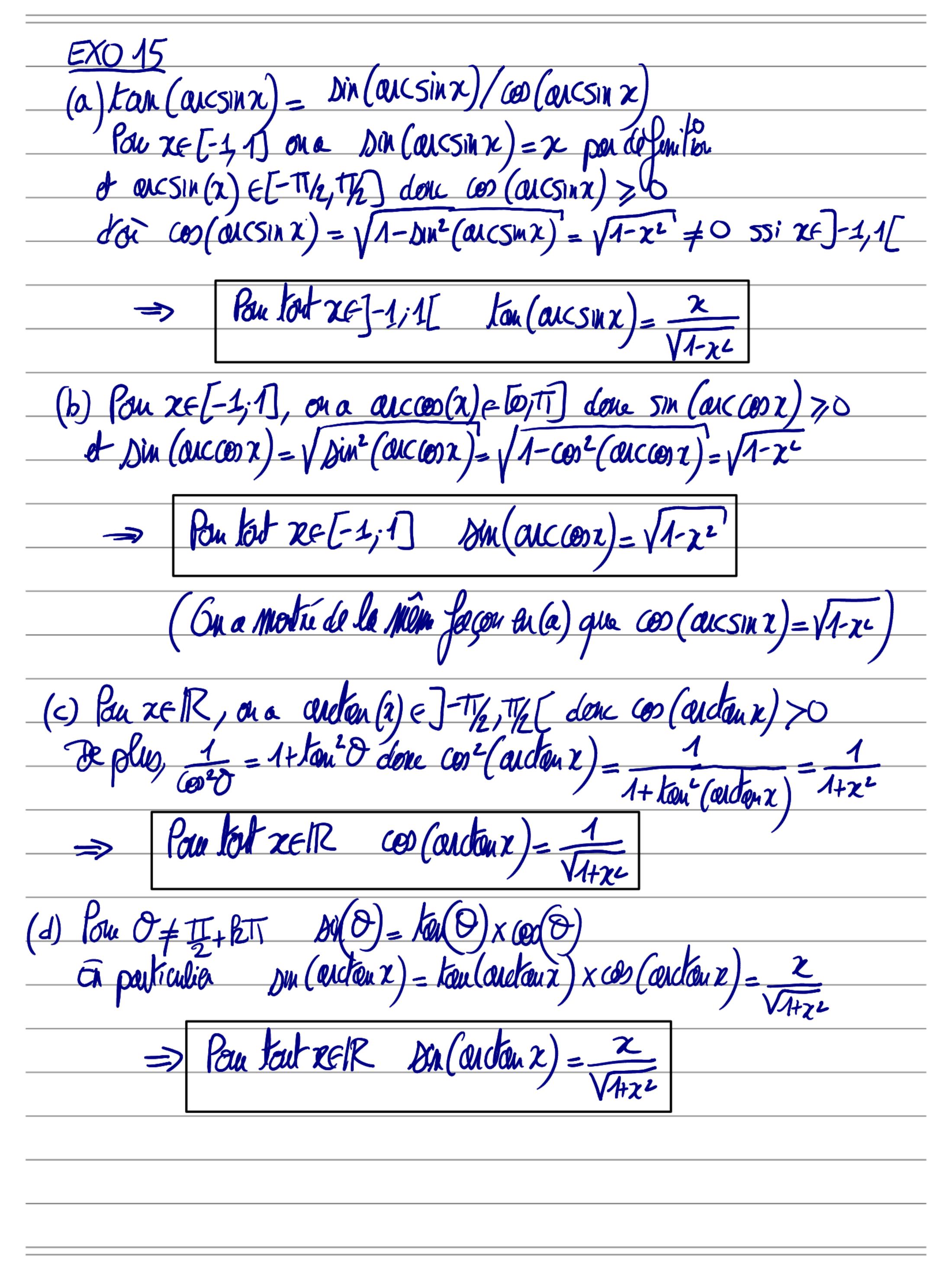
$$\frac{\pi}{12} = \frac{\pi}{12} - 4\pi$$

$$\frac{\pi}{12} = \frac{\pi}{12} + 10\pi$$

$$\frac{\pi}{12} = \frac{\pi}{$$







(4) $\int \cos(2\pi) = \cos(4x-5x) = \cos(4x)\cos(5x) + \sin(4x)\sin(5x)$ $\int \cos(2\pi) = \cos(42x) = \cos(4x)\cos(5x) - \sin(4x)\sin(5x)$ $\int \cos(2\pi) + \cos(42\pi) = 2\cos(4x)\cos(5x)$ $\int \cos(4x) + \cos(4x) \cos(5x) = 2\cos(4x)\cos(5x)$ $\int \cos(4x) + \cos(4x) \cos(5x) = 2\cos(4x)\cos(5x)$ soit $(3-2\cos(7z))x\cos(5z)=0$ Bien entendu, $\cos(5x) \le 1 \le 3/2$ pour tent $x \in \mathbb{R}$ Be play, $\cos(5x) = 0$ $= 5x = 1/2 + 2\pi$ 2= T/0 + RTT/5 司在部进步打击 $(2) \int Bin(2) = Bin(3x-2x) = Sin(3x) coolar) - Sin(2x) coo(3x)$ = Bin(3x+2x) = Bin(3x) coo(2x) + Ain(2x) coo(3x) $\Rightarrow Sin(2x) + Bin(5x) = 2 Bin(3x) coo(2x)$ $\Rightarrow De la pote, l'équation propagée éllient 2 Sin(3x) cool2x) - Bin(3x) = 0$ $(31)(2\cos(2x)-1)=0$ $\Rightarrow Din(3x) = 0$ on cos(2x) = 1/2DIA(3x)=0 => 3x=12TT => 2=12T/3 (96-2) => x=-2T/3,-T/3,0,T/3,2T/3,TT +2PLTT (86-2) (00(2n)=1/2 => (00(2n)= (00(4/3) => 2x=1/2 +28et on 2n=-1/2+28et $\approx x = \frac{7}{16} + 2017/3$ ou $x = -\frac{1}{16} + 2017/3$ $\Rightarrow x = -\frac{7}{16}, \frac{1}{16}, \frac{51}{16}, -\frac{51}{16}, -\frac{17}{16}, \frac{1}{12} + 2011 (842)$ On reunit done totes cos polatrous, ce qui en fait un baca preguet ?

(3)
$$\cos(x) - \sqrt{3} \sin x = 1 \implies \frac{1}{2} (\cos(x) - \sqrt{2} \sin(x) = \frac{1}{2} \implies \cos(\sqrt{3}) \cos(x) - \sin(\sqrt{3}) \sin(x) = \frac{1}{2} \implies \cos(\sqrt{3}) \sin(x) = \frac{1}{2} \implies \cos(\sqrt{3}) \sin(x) = \frac{1}{2} \implies \cos(\sqrt{3}) \sin(x) = \frac{1}{2} \implies \cos(x) + \frac{1}{2} \sin(x) = \frac{1}{2} \sin(x)$$

