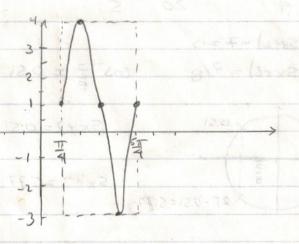
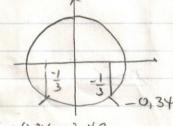
Les derniers mechants bons problèmes (Revision)

#2
$$a=3$$
 $p=\frac{2\pi}{2}=T$



$$8n^{-1}-1=-934$$



$$2(x-\pi) = -0.34 \implies X = 0.62 + \pi n$$

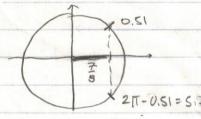
$$COSV(x+1) = \sqrt{3}$$

$$\Pi(x+1) = \frac{\pi}{6} \quad X = \frac{5}{6} + 2n$$

ntz

$$\pi(x+i) = 11\pi \quad x = \frac{5}{6} + 2n$$

tansx=1



1-(2014) To 2 = 1 con 1-(1-4) Tries = 4 (2

5x+2=5,77 X=0,754 +21 n

nez

$$4(x-\overline{z})=3\pi$$
 = 0 $\times -\frac{\pi}{z}=3\pi$ = 0 $\times = 11\pi$ $+\pi$ n

656

Attention o

- coto = tan 0

CSC20 -COSO = SING - COSO 600 SING Sind cost Sino SINO SINO 5:0

= 1-6030 = pin 6 1 - 656 600 SINDCORD SINDCOSO SHOLOO SHOLOUS SINGCOSO Sino

= Sino f) coto = pec 0 600 = tan0

6010 600 SING 600 6050 600 51000026 Sino Sin O 1-5,20 1 - SIN & I pino 6000 = 1 = secs

line SINO

CSC A - sin A = cot A

1 - pinA 1-Sin 2A = SINA 60sA

 $= \frac{\cos^2 A}{\sin A \cos A}$ COSA = COTA D



h)
$$tan x + cot x = sec x csc x$$

$$\frac{\sin^2 x}{\cos^2 x} + \frac{\cos^2 x}{\sin^2 x} = \frac{\sin^2 x + \cos^2 x}{\cos^2 x} = \frac{1}{\cos^2 x} = \frac{\sin^2 x + \cos^2 x}{\cos^2 x} = \frac{1}{\cos^2 x} = \frac{1}{\sin^2 x$$

$$P = \frac{2\pi}{\pi} = 8$$

$$\underline{T} \times = \underline{T}.$$

$$T \times = T \times = 0,66$$
, $8,66$, $16,66$

$$\frac{11}{4} \times = \frac{5\pi}{6}$$
 $X = \frac{3,33}{3}, \frac{11,33}{11,33}, \frac{19}{33}$

#7 arc sin (LOS
$$\overline{ST}$$
)

a) arc sin $\left(-\frac{\sqrt{3}}{2}\right)^6 =$

$$\#5a)$$
 $pec \times -\frac{1}{100} \times = 1$

$$\frac{1}{\cos x} = \frac{\sin^2 x}{\cos^2 x} = \frac{1-\sin^2 x}{\cos^2 x} = \frac{\cos^2 x}{\cos^2 x} = 1$$

$$\frac{\cos x}{\cos x} = \frac{1-\sin^2 x}{\cos^2 x} = \frac{1-\sin^2 x}{\cos^2 x} = \frac{\cos^2 x}{\cos^2 x} = 1$$

$$\frac{\cos x}{\sin x} = \frac{1-\sin^2 x}{\cos^2 x} = \frac{1-\sin^2 x}{\cos^2 x} = \frac{\cos^2 x}{\cos^2 x} = 1$$

$$\frac{\sin^2 x}{\cos x} + \frac{\sin x \cos^2 x}{\cos x \sin x}$$

$$\frac{\sin^2 x}{\cos x} + \cos^2 x + \cos^2 x + \cos^2 x = 1$$

$$\cos x + \cos x + \cos x = 1$$

$$\cos x + \cos x + \cos x + \cos x = 1$$

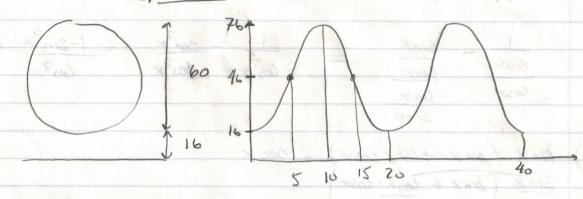
c)
$$\frac{1-\sin^2 x}{\sin x}$$
 necx = cot x

$$\frac{\cos^2 x}{\sin x} \cdot \underline{\square} = \frac{\cos x}{\sin x} = \cot x \ \underline{\square}$$

$$\frac{(05^20 \cdot 5100)}{(050)} = \frac{(050) 5100}{(050)} = \frac{(050) 5100}{(0$$



#8



n = 46 MILIEU en y des cycles. ?

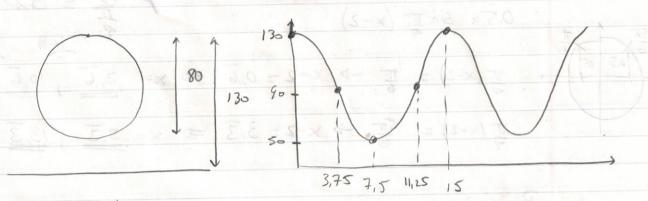
$$y = -30 \cos(\frac{\pi}{12}x) + 46$$

b) x=10 j=? pur importe le rèple choisie

y=-30 (05 (I 10)) +46 = 76 cm logique can low = 1 tou

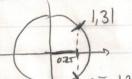


#9 4t -> 60N It > 15N = periode



$$a = 40$$
 $p = 15 = 2\pi$
 $b = 2\pi$
 5

Peu importe la règle choisie



$$2\pi x = 1/31 \quad X = 3/13$$

#10

$$I_{\frac{1}{4}}(x-2) = I_{\frac{1}{6}} \rightarrow x-2 = 0, \overline{6} \Rightarrow x = 2, \overline{6}, 10, \overline{6}, 18, \overline{6}$$

$$\Rightarrow x = \frac{2,6}{5}, \frac{10,6}{5}, \frac{18,6}{5}$$
 $\Rightarrow x = 5,\overline{3}, \frac{13,\overline{3}}{5}$

$$a = a(s)$$

$$a = -0.4$$

#12 -2 3x-4 +5=-7 -2 |3x-4/=-12 4/x-1/+1=8x-3 b) 4/x-1/= 8x-4 X-1=2x-1 X-1=-2x+1 3x = 2NON ok XXX Attention #13c) #13c) $h(x) = \frac{6x-1}{2x+3}$ 12x+3 $y = \frac{-10}{2x+3} + 3$ $= \frac{-10}{2(x+1.5)}$ -00, -1,5[U] 1, +00 @]-1,5, E 6x-1=0=0 x=1 Hilrory

$$\frac{2is}{x+2} = \frac{-3}{x+2}$$

$$-5 = \frac{-3}{x+2}$$

$$-5(x+2) = -3$$

$$2in = 8 - 2$$

$$x-4$$

$$2 = 8$$

$$x-4$$

$$2(\dot{x}-4) = 8$$

$$x-4 = 4$$

$$(-8,14) = a(2.5) + b(-3,1)$$

$$(-8,14) = (2a,5a) + (-3b,b)$$

$$(-8,14) = (2a-3b,5a+b)$$

$$3 \cdot (5a + b = 14)$$

$$2a - 3b = -8$$

$$3 \cdot (5a + b = 14)$$

$$15a + 3b = 42$$

$$17a = 34$$

$$a = 2$$

$$b = ? 2(2) - 3b = -8$$

b=4

#146)

$$(7,20) = a(-3,2) + b(4,6)$$

 $(7,20) = (-3a,2a) + (46,6b)$
 $(7,20) = (-3a+46) 2a+6b)$

$$2^{\circ}(-3a + 4b = 7)$$
 = 0 $-6a + 8b = 14$
 $3^{\circ}(2a + 6b = 20)$ $\frac{6a + 18b = 60}{26b = 74}$

$$b=2.85 = 0$$
 $2a+b(z.85)=20$
=0 $a=1.46$

b) 5% → 12 moi ×= 0,416 %

c) 52 + 12 moi x=2,5%

14 = de + x -> 6 mois = d + de

12000 = 8600 (1,025) × 1,395 = 1,025×

#16
$$4^{x+3} = 9^{-2x+3}$$
a) $4^{x+3} = (4^{6})4^{9} - 2x+3$

$$4^{x+3} = (4^{1585})^{-2x+3}$$

$$x + 3 = -3,17x + 4,75$$

$$x = 0,42$$

$$3^{4\times} = \left(3^{(0)3^{17}}\right)^{5\times +6}$$

$$X = -1,77$$

× = 10,32

c)
$$12 \cdot 2^{\times -10} - 13 = 2$$

$$12 \cdot 2^{\times -10} = 15$$

$$2^{X-10} = 1,25 = D X-10 = log_2 1,25$$

$$\frac{d}{-4.5^{4\times}+9^{-9}=-20}$$

$$-4.5^{4\times}=-29$$

$$5^{4x} = 7,25$$
 = $4x = 69,7,25$

$$D = \frac{5,64 \times -7,96}{-12,86 \times = 30,16}$$

$$\times = -2,35$$

a)
$$\log_2(x+4) + \log_2(2x-1) = 3$$
 $2x-1>0=0 \times > 0.5$

 $\log_2(2x^2+7x-4)=3$

2 = 2x +7x-4 8 = 2x2+7x-4

0= 2x2+7x-12

-7 ± 149 - 4(2)(-12) (+) x = 1,26 * ** (x= -4,76 rejetéc

b) log_x + log_ (x+10) = -4

log (x2+10x) = -4

19.2 = CKX

(1)-4= x2+10x

16 = X2+10×5801 = X

0 = x2 +10x -16

-10 ± 1/00 - 4(1)(-16) @ 1,4 * ** € -11,4 rezetec

c) loy (3x-2) - loy (x-6) = 2

9 - 4 - 6 - 16

=0 25(x-6) = 3x-2 $25 \times -150 = 3 \times -2$

X = 6.73

