

2019 -2018 :	
1440	25 = 2018 03 :
$e^{(4\ln 2 + 3\ln 3 + 2\ln 5)}$:	

التمرين الأول : 05 نقاط

• $[0; +\infty[$ f • $(O; \vec{i}, \vec{j})$

• $y = x$ (Δ) , (C_f) $f(x) = \frac{x}{2x+1}$

• $0 \leq f(x) \leq 1$ $0 \leq x \leq 1$, $[0; +\infty[$ f (1)

• $u_{n+1} = \frac{u_n}{2u_n + 1}$: n $u_0 = 1$: (u_n) (2)

• u_3 u_2 u_1 u_0 , -
• (u_n) -

• $0 \leq u_n \leq 1$ n (3)

• (u_n) -

• $w_n = \frac{1}{u_n}$: n (w_n) (4)

• w_0 $r = 2$ (w_n) (
• n u_n n w_n (

• $\lim_{n \rightarrow +\infty} u_n$ (5)

التمرين الثاني : 04 نقاط

(C_g) , $g(x) = \cos x + \sin^2 x$: $\mathbb{R}$ g

• $\|\vec{i}\| = 2\text{ cm}$: • $(O; \vec{i}, \vec{j})$

• 2π g (1)

• g (2)

• $(2\cos x - 1)$ $g'(x)$ $[0; \pi]$ x (3)

• $[0; \pi]$ g -

• $2,20 < x_0 < 2,30$ x_0 (C_g) (4)

• $[-\pi; \pi]$ (C_g) (5)

التمرين الثالث : 04 نقاط

:

-03 -	- 02 -	-01-	
$r = 1954$	$r = 1440$	$r = 2019$	$U_6 - 2U_2 = 1890 \quad U_0 = 2018$
$S = \{-1\}$	$S = \{-1; -\ln 2\}$	$S = \emptyset$	$2.8^x + 4^x - 2^x = 0$
0	2	3	$h(x) = \frac{x + \sin 2x}{2x - \sin x}$
$Ce^{2x} + \ln 4$	$Ce^{x \ln 2} + 4$	$C 2^x + 3$	$y' = (\ln 2)y - \ln 8$

التمرين الرابع : 07 نقاط

$g(x) = x^2 - 2 + 2 \ln x$: $]0; +\infty[$ g : _____

. g -1

. $1,24 < \alpha < 1,25$ α $g(x) = 0$ -2

. $]0; +\infty[$ $g(x)$ -3

. $f(x) = x + 2 - \frac{2 \ln x}{x}$: $]0; +\infty[$ f : _____

. $\|\vec{i}\| = 2cm$. $(O; \vec{i}; \vec{j})$ (C_f)

. $\lim_{x \rightarrow +\infty} f(x)$. $\lim_{x \rightarrow 0^+} f(x)$ -1

$f'(x) = \frac{g(x)}{x^2}$: $x > 0$ -2

. f -

. $+\infty$ (C_f) $y = x + 2$ (Δ) -3

. (Δ) (C_f) -

. $f(\alpha)$ $f(\alpha) = 2\alpha + 2 - \frac{2}{\alpha}$: -

. (Δ) (T) (C_f) -4

. (T) (Δ) (C_f) -5

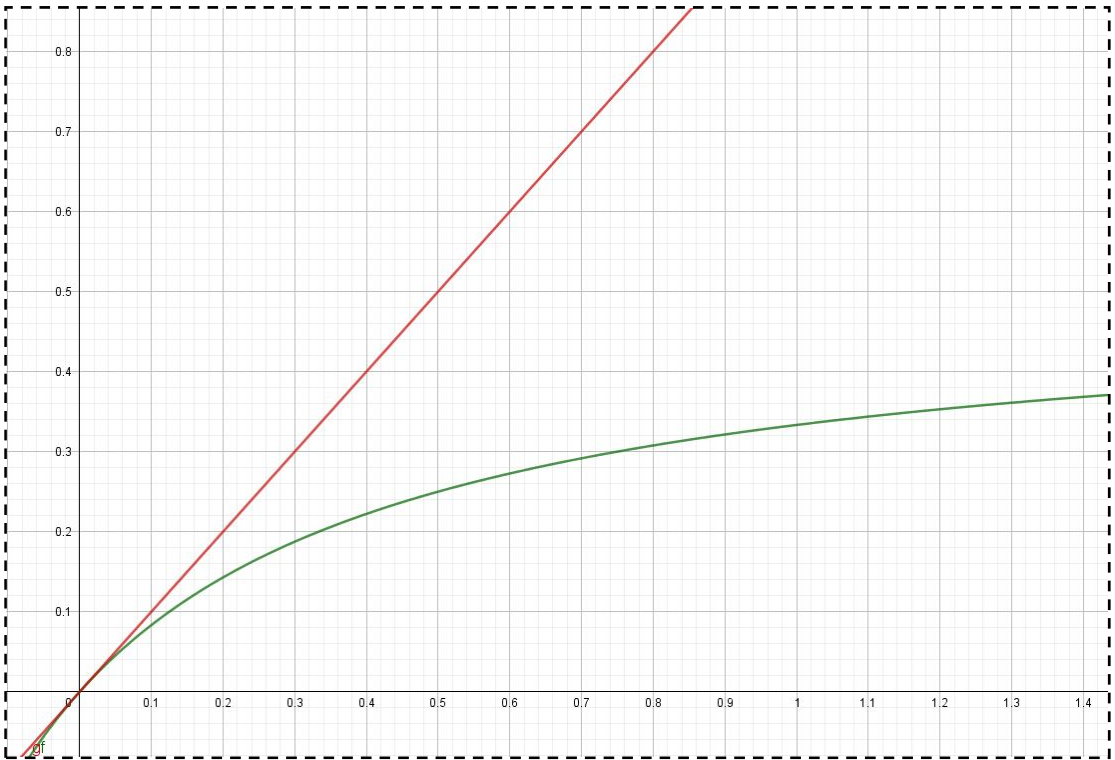
. $\ln x = \left(1 - \frac{m}{2}\right)x$: m -6

(.....)

:

..... :

..... :



.....

..... :

..... :

