2º Examen Entrenamiento

Transformences ven û = 5 [U]:

$$\hat{U}_{t} = (1 + h(1 + t)) \hat{U} \cdot (i\omega)^{2} + \hat{U} =$$

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=)
$$lm(O(w,t)) - lm(O(w,0)) = t - w^2 t - w^2 \int_{-w^2/4}^{t} t \int_{-w^2/4}^{t} t - w^2 (t+1) lm(t+1)$$

Transformede inverta:

$$f'[e^{-\omega/4b}] = \sqrt{\frac{b}{\pi}} e^{-bx^2}$$
, luego excilimos;
 $C = \sqrt{\pi} \text{ ot } -\omega^2 \cdot \left[\frac{1}{4} + (1+1) \ln(1+1)\right]$

$$C = \sqrt{n} e^{t} e^{-\omega^{2} \cdot \left[\frac{1}{4} + (t+1) \ln(t+1)\right]} =$$

$$\frac{1}{1 + 4 \cdot (t+1) \ln(t+1)} = \frac{1}{1 + 4 \cdot (t+1) \ln(t+1)}$$

=)
$$V(x_1t) = \sqrt{\pi} e^{t} \sqrt{\frac{6}{\pi}} e^{-bx^2} = e^{t} \sqrt{\frac{1}{1+4(1+t)h(1+t)}} e^{\frac{1}{1+4(1+t)h(1+t)}} x^2$$

$$V(x_1t) = \sqrt{\pi} e^{t} \sqrt{\frac{6}{\pi}} e^{-bx^2} = e^{t} \sqrt{\frac{1}{1+4(1+t)h(1+t)}} e^{\frac{1}{1+4(1+t)h(1+t)}} x^2$$

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Aplicamos
$$2 = 6 = (\sqrt{200})$$
;
 $2^2 - \sqrt{50} \cdot 2 = \sqrt{50} + 2(2^2 - \sqrt{50}) + 8^2 = 5 = 5$
 $= 2 = 2 = 2 = 5$

C(colemos §:

$$S(t) = (\pi - t) \cdot [H(t) - H(t - \pi)] + \text{Sent. } H(t - \pi) =$$
 $= (\pi - t) \cdot H(t) + (t - \pi) \cdot H(t - \pi) - \text{Sec. } (t - \pi) \cdot H(t - \pi) =$
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Schemes que 12 as arabitie en:

En prhaipio, cosh(sz)-1 no até définide en d semicipo reel negetivo. Sin enbergo, conh(w) -1 = \(\frac{\pi}{k=1} \frac{\pi^2 k}{(2 k)!} \), y ento en etido \(\pi \pi \).

En particular, si witz (donde le até definide), se tione;

cosh(12)-1=(\$\frac{2\kappa}{(2\kappa)}) = \frac{\frac{2\kappa}{(2\kappa)}}{(2\kappa)} > \frac{\frac{2\kappa}{(2\kappa)}}{(2\kappa)} \tag{Est serio conveye a todo (. Lvep podems extender le déphisis de cosh(Ve)-1 a todo C de moner archibice

Excibemos la coxció en forme estelhar? $w'' = -\frac{\sin(22)}{82(\cosh(62)-1)}w' + \frac{\sec 2}{2(\cosh(62)-1)}w'$ $b(2) = -\frac{8h(22)}{8(\cosh(\sqrt{2})-1)} = b(0) = h - \frac{8h(22)}{8(\cosh(\sqrt{2})-1)} = h - \frac{22}{8(\frac{2}{2})} = -\frac{1}{2}$ $a(8) = \frac{2868}{2868} = 0$ $a(0) = \lim_{z \to 0} \frac{2822}{2822} = 0$ El sisteme quede depermined por C= [0 1/2]. Atordora: 1= 12, 12=0. Sol. senerd! W(2) = (1 z/2 p,(2) + (2)2) , P,(0)= P2(0)=1. la solvaion e le (14), porque 2/2 p1(2) es 0(2/4), y= $\frac{2^{l_1}}{2^{l_1}} \xrightarrow{\gamma_1(2)} \xrightarrow{2 \to 0} 0$ (1+ +2) W" + +2 W=0 , W(0)=0, W'(0)=1. Busano un solvion m= Eckt. Nota: le ecuación este delivid too Pero si extendemos wa too IR pusand le misme rente se pour sont hoster del desemble de Teylor de w. $(1+t_{5})m_{11} + \frac{1+t_{5}}{t_{7}}m=0 \Rightarrow (1+t_{5})_{5}m_{11} = -t_{5}m \Rightarrow$ => (1+t4+2t2) ~" = -t2~ => =) (1+t4+2t2) \(\Sin(n-1) \cdot \cd t3 → 12(3+20G==-C1 t4 → 2C2+24(4+30C5=-C2 to- 26=0 t' > 6 C3 = 0 tn - (n+2)(n+1) Cn+2 + 2n(n-1) Cn + (n-2)(n-3) Cn-2=-Cn-2

t2 → 4 C2 + 12 C4 = - Co

$$K_{t} = -\frac{C_{K-2}(1+(K_2)(K-2))}{(K+1)(K+1)} + 2K(K-1)C_{K}$$

$$(K+1)(K+1).$$
[Le recurrence boven as be (9)] $Y C_{5} = -\frac{1}{120}$. Loops (9).

$$V_{t} = (\lambda + \frac{t}{V_{244+1}t^{2}})V_{XX}$$

$$V(V_{1}) = g^{X}$$

$$V(V_{1}) = g^{X}$$

$$V_{t} = (\lambda + \frac{t}{V_{244+1}t^{2}})(-u^{2}) \Rightarrow 0$$

$$V_{t}$$

$$O \text{ mejay, } S^{-1} \left[\sqrt{\ln} e^{-u^{2}c} \right] = 0$$

$$S^{-1} \left[\sqrt{\ln} e^{-u^{2}c} \right] = e^{-bx^{2}} = 0$$

$$= 0 \text{ the } S^{-1} \left[\sqrt{\ln} e^{-u^{2}c} \right] = \frac{1}{2\sqrt{c}} e^{-x^{2}/4c} = 0$$

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$$= 0 \text$$

2) Es dein: $\int \frac{t(\lambda-t)^2 + \alpha^2}{(\lambda-t)^2 + \alpha^2} dt = -t \sum_{n=1}^{\infty} \ln \left(\alpha^2 + (\lambda-t)^2\right) - \alpha \cot \left(\frac{1-t}{\alpha}\right) = 0$ =) $U(1/\alpha) = \frac{1}{17} \left(-\alpha + \frac{\alpha}{2} \left\{ h(\alpha^2) + h(\alpha^2 + 1) \right\} - \alpha^2 \left(a t h(0) - a t m(\frac{1}{\alpha}) \right) \right) =$ $= \frac{1}{\pi} \left(-\alpha + \frac{\alpha}{2} \left(\ln \left(\frac{\alpha^2 + 1}{\alpha^2 \alpha} \right) \right) + \alpha^2 a \tan \left(\frac{1}{\alpha} \right) \right) =$ = \frac{1}{\pi} (-\alpha + \frac{\alpha}{2} \lambda (1+ \frac{1}{\alpha^2}) + \alpha^2 \text{ otn (16)} \] [Solvaish: (18)] (7)) Ut = nux + fnx + fr noo U(1,0,0)= 5, (av) (n0 + 5, (2r) Ser (20) Ca 2 & B, d cens de 5, 5 B cens de 52. U(r,0,t) = cos0 { wk(t) 5, (1/k,r) + sec (20) { hk(t) 52 (1/k2r) - Con este définición, U(1,0, El = 0 siempre. - U(1,0,0)= roso Ewrid J, (Ar, r) + se (20) [hr (0) 52 (Ar, r) = per [-mill] = J, (d) (000 + Jz (Br) sc (20). Par un ledo, (00 y ser (20) son funcione linedmente independienter (de hecho, intojoudes). Lies etc isolded implie que? , Elik (0)], (4x,1) =], (xx) · Sha(0) 52 (Amr) = J2 (B1) Ahan, extiend unicided de sevre de Bessel:) BK(0) = 0 Si yK1 + Bi BK(0)=1 Si yK'=X

) BK(0) = 0 Si yK'+Bi BK(0)=1 Si yK'=B.

Vegnos abox les tDOI que montre compler was Bre.

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coso [ wilt) ], (Axir) + Sen (20) [Bin(t)], (Axir) =
         + 1 (000 Enx(1) Ax, J, (Axy) + SN(0) Epx(4) Az, S, (Az, V)] +
       + I [- (100 Ewalt)], (Maix) -45e(20) [Balt)] (Maix).

Tom (100) se (20) son independienter, est isolded implies!
(x) ) = \( \int \int \langle \
                    1. Epk(1) In (Acir) = Epk(1) de Ji (Armer) + [ Spell) dra Ji (drav) -
                                 - I SPR (+) J2 (dr21)
             J, couple: x² J," + x J,' + (x²-1) J, =0 =>

5. couple: x² J," + x Jz' + (x²-4) J, =0
                 =) ) dk, 2 2 5" (dk, 1) + dk, 1 5' (dx1) + (dk, 12 - 1) 5, (dk, 1) = 0

dk, 2 2 5" (dk, 1) + dk, 1 5' (dk, 1) + (dk, 12 - 4) 52 (dk, 1) = 0
       Lues of sistene (*) quede:
               ] & Wx (1) J, (Wx, v) = - & dx, wx (+) J, (dx, v)
                ) & B = (t) Sz(AK, Y) = - & AK2 Br(t) Sz(AK, Y)
                                |W_{\kappa}| = -d\kappa^{2} w_{\kappa}(t) / w_{\kappa}(0) = 0 \text{ solve } \kappa = \kappa_{\kappa}, q^{2} \text{ whel}
\int \beta_{\kappa}^{1} = -d\kappa^{2} \beta_{\kappa}(t) / \beta_{\kappa}(0) = 0 \text{ solve } \kappa = \kappa_{\kappa} = \kappa_{\beta}, q^{\alpha} \text{ whel}
\int \beta_{\kappa}^{1} = -d\kappa^{2} \beta_{\kappa}(t) / \beta_{\kappa}(0) = 0 \text{ solve } \kappa = \kappa_{\kappa} = \kappa_{\beta}, q^{\alpha} \text{ whel}
     Per unividat de Bossel:
      To solvinon en W_K(t) = \int_0^\infty e^{-\alpha^2 t} \int_0^\infty K = K_{\beta}
0 \int_0^\infty K \neq K_{\beta}
         Lues U(r,0,t)= e-2t (00 3,bv) + e-Bit ser (20) 52 (Br), (Es 6 (17))
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