09 07 2020 NUTOBYEHRO GAHHUR BAR MAGTU MPOUS BO AMBIE 1) y = arc cos? ( - (1 18+2") y'= (arccos' ( Jln V8+2 )) = 3 arccos' ( Jln V8+2 ) . farecos ( Jln John) 1) (arccos (Vin Vine)) = ( -1 VI-(Vin VX+8)) 2)  $\left(\sqrt{\ln \frac{\sqrt{n+8}}{n+2}}\right) = \frac{1}{2}\left(\frac{1}{2} + \frac{1}{2}\left(\frac{\sqrt{n+8}}{n+2}\right), \left(\frac{1}{2}\left(\frac{\sqrt{n+8}}{n+2}\right)\right)\right)$ 3) ( Lh \( \frac{1}{248'} \) = \( \frac{1}{248'} \) 4)  $\left(\frac{\sqrt{n+8'}}{n+1}\right)^3 = \left[\frac{\sqrt{n+8'}}{n+1}\right]^3 \cdot \left[\frac{n+2}{n+1}\right]^2 = \frac{1}{2}\left[\frac{n+8}{n+1}\right]^2 - \frac{1}{2}\left[\frac{n+8}{n+1}\right]^2$  $-\sqrt{n-8'\cdot 1} = \frac{1}{2\sqrt{n-8'\cdot (n+1)^2}} = \frac{1}{2\sqrt{n+2}}$ 51 lun n+2 1-1 = - 2+2 -1 6) 1 (42 ( Vart8) - (1) = 1 - Vart8 1 . Vart8 7) (-1 \(\frac{1}{\lambda - \lambda \lambda \lambda \range \range \lambda \lambda \range \range \range \lambda \range 8 3 at cos [ Hly JR+8") 2 V1- (n Vis8') V (n ( Vus ) Vis )

Outen:

2 01- (n Vis ) V ( Vus )

2 V1- (n Vis ) V (n Vis )

2 V1- (n Vis ) V (n Vis )

(2) 2 - ( Vn4 - 10 n + 6) arcsin (n+n)  $y' = (\sqrt{n^4 - 10n + 6})^{\alpha r c s in |n + n^2|} = (n^4 - 10n + 6)^{\frac{\alpha}{2}} \cdot (\ln n^4 - 10n + 6)^{\frac{\alpha}{2}} \cdot (\ln n^4 - 10n + 6)^{\frac{\alpha}{2}}$ 1) [(n 124-102+6) - arcsin/242/) = 1 (arcsin/242/- (h/24-102+6)) 2) [arcsin[n2+2]. (4/24-102+6]] = [arcsin[n2+2]. (4/4-102+6] + arcsin[22+2].  $= \frac{(n^{4}-10n+6)^{7}}{(n^{4}-10n+6)^{2}} = \frac{2}{(2n+1)(2n^{4}-10n+6)} = \frac{2}{(2n+1)(2n+6)} = \frac{2}{(2n+6)(2n+6)} = \frac{2}{(2n+6)(2n+6)(2n+6)} = \frac{2}{(2n+6)(2n+6)$ Dulem:  $[u^4 - 10u + 6]^{\frac{4\pi c \sin(u^2 + 2)}{2}} \left| \frac{|u^4 - 10u + 6|}{\sqrt{1 - |u^2 + u|^2}} + \frac{|u^3 - 10| \frac{4\pi c \sin(u^2 + 2)}{u^4 - 10u + 6}}{u^4 - 10u + 6} \right|$ 3  $\sin(14+3xy-3y)+\frac{7x^4y-xy+11}{5y^2}=y^2-15x^3$ (sin 114+32y-3y)+ 724y-25+11)=(g2-1523) (Sin(14+325-34))+ 1/2 (724-24+11)=(34)-15(23) cos (14+395-34). (14+325-35) + 1 [172"-25111]. 52-172"-25+111.152) 29.9'-15.32 94 05(14+3ag-39).(3(9/n+y)-35))+22(1823-9/2-51-295)(724-969+11) cos(14+3ms -36) · (434) (15m-15) + 1584) + 4(3 (28m) - 4'n-5) - 25' (7m2 ms +111) - 2454 cos(14+3ng) -351-1334 15n-15)+1554 + 28235-236-22-142"5 + 1295-129" = 295-4522 15

Hautu nuterpanbl 6)  $\int \frac{n \, dn}{(11-7n^2)^9} = \left[\frac{nog_{\epsilon} randka}{t^2 + (11-7n^2)^2}, \frac{db}{dn} = t^2\right] + \frac{1}{(11-7n^2)^2} dn = 14 \times dn$  $= \int \left(-\frac{1}{14a}\right) \frac{\pi}{t^9} dt = -\frac{1}{14} \int t^{-9} dt = -\frac{1}{14} \cdot \left(-\frac{1}{8t^8}\right) + C = \frac{1}{1118} + C = \left[\frac{1}{3arena}\right] = \frac{1}{1118} + \frac{1}{118} + \frac{1$ = 112/11-72-16 + C Omber: 1 1 C B) S(n5+9n) Lnndn=[ suv= uv-Su'v; v= (25/9n); (v=) 25/2ndn=  $=\frac{n6+27n^2}{6}=\left[\frac{n^6+27n^2}{6}\right]\cdot \left(hx-\int_{-\infty}^{\infty}\frac{1}{n^6+27n^2}\right)^2=\frac{\left(nn(n^6+27n^2)\right)^2}{6}$  $-\int \frac{\pi(n^5+27n)}{\pi \cdot 6} = \frac{\ln \ln \ln 6 + 27n^2}{6} - \frac{1}{6} \int u^5 - \frac{27}{6} \int u = \frac{\ln \ln \ln 6 + 27n^2}{6} \frac{26}{36} \frac{9n^2}{76}$  $= \frac{\ln n \left(n^6 + 17n^2\right)}{6} - \frac{n^6 + 81n^2}{36} + C = \frac{6 \ln n \left(n^6 + 17n^2\right) - n^6 + 81n^2}{36} + C =$  $=\frac{6 \cdot n^{2} \cdot \ln \kappa \left(n^{4} + 27\right) - \kappa^{2} \left(n^{4} + 81\right)}{36} = \frac{n^{2} \left(6 \ln \kappa \left(n^{4} + 27\right) - \kappa^{4} - 81\right) + C}{36}$ Onlen: 22 16 Ch n (24+27) - 24-81) + C  $\frac{dx}{\int \frac{dx}{1 + \sqrt{2n+1}}} = \begin{bmatrix} represent & respectively \\ t = \sqrt{2n+1} & respectively \\ t = 2n+1 & d = 2n+1 \end{bmatrix} = \begin{bmatrix} 1 & 2t & 1 \\ t & 2t & 1 \end{bmatrix} = \begin{bmatrix} 1 & 2t &$ = Stdt = St+1-1 dt = St+1 dt - Sdt = t- (n/t+1/+ C = hat - (n/text)+1 Orgen: VIn+1'- (n/Vin+1'+1/+C

 $=\frac{\pi}{2}-0=\frac{\pi}{2}$ Omber:

$$\int \frac{dx}{3cc^{2}n+5sin^{2}n} = \begin{bmatrix} \log x = t & dn = \frac{dt}{3ct^{2}} & sin x = \frac{t}{3ct^{2}} & cosn = 1 \\ \frac{1}{st^{2}} & \frac{3}{nt} & (t^{2}+1) & \frac{1}{st^{2}} & \frac{$$

 $\int_{-5\sqrt{5-4n-a^2}}^{1} = \left[F(b) - F(a)\right] = \alpha resin\left(-\frac{2+2}{5}\right) - \alpha resin\left(-\frac{5}{3}\right) = \alpha resin\left(0 + \alpha resin(-1)\right)$ 

Pew NTP Dupper yp;

(D) Hant The pewerne Ay: y' = -2y, yoderdeprouves notion y10]=25 y' = -2y dy = -2yLy y = -2x dy = -2x

( Maumu od you namergal got & y! ny=3 J3n2+32+3 y' = 3 23 22 + 42 + 4 y' = 3 \sat + 32' + 4 \\ \tilde{x} + \frac{1}{n} y1=3 V3+132 + 3 t= 2; 2= n.6; 3'= n't + n.t'= t+nt' t +n"t = 3 \st2"+t 2 t' = 3 V3 +t2  $\frac{dt}{dx} = 3\sqrt{3}tt^2$  $n dt = 3 \sqrt{3 + \epsilon^2} dn$  $\frac{dt}{2\sqrt{24t^2}} = \frac{dx}{x}$ 5 3 V3+E27 = 5 d2 1 lh (6+ VE2+3')= Lhn+ C 1.3 Ch (+ VE+3') = 3 Chn + 6h C 2 + V3+[2]2 = n3 C Omber: 4+ V3+ 13/3= 23 C