

Pa = 2 cot oc f(12) = 22 cot 22 = 2(1-dan'sc) 56 = 20 (e) (2-5x)6 governed from as 6C+ 2+ (-51)6-7 heed 6-+ = 3 50 7=3 Vfor C3, V for 23x(-5)3, V for r=3,

= 15 / X + 15/102X | The second of the secon

 $=2\sqrt{\Xi}+2\sin\pi)-(\ddot{o}+2\sin\tilde{o})$ 

(1) The angle between a tongent and chool is a? so LARC and LADC are rightangles
so the appointe angles of ARCD are supplemented
so ABCD is updie (ii) Keghtangles are publiculed at the Cercumforeure by dramation of AKD V So AL is a dresseley of AKD V But AE = EE Augustery of AKD V So E is the centre of the circle

(III) SIN LISCH = AB = 1 AC 2 So La Richa = 30°

Similarly SINZACD = AD = = =

SI AGA E 30°

(IV) Torqueto from an external poent are So LCBD=LBDC=60°, outesum

So LCBD=LBDC=60°, outesum

So LCBD=LBDC=60°

and ABCD is equilatarial

( There are many other correct ways to

(a)  $y = \frac{1}{\sqrt{1+4x^2}} = \frac{2}{\sqrt{4+x^2}}$ variance a a consideration of the second sec The second secon Later Turner war war war war and the state of the state o du = dxlimits: when = =4 3 (u+3) Vu du V = ((1132 + 316 \$) du ~ = \frac{3415}{5} + 345 \frac{3}{3} \] = ) = uh + 2uh]

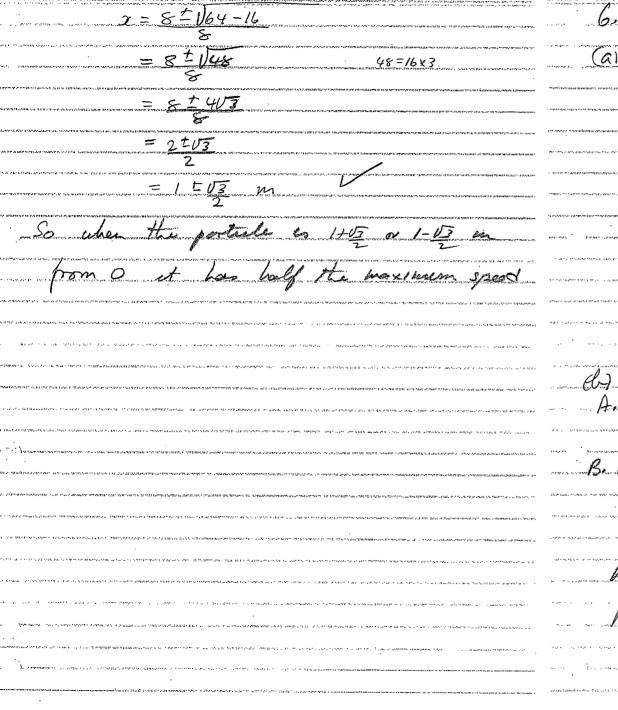
JT = 22 - AE

LT = B (22 - T)

= -B (T-22) When t=0, T=-8 -8=22-A1 = - \$0 lu = V Find T when t = 150 T = 22 - 30e - 180 x ( = 20 = 3) = 22 - 30e = 22-30E = 22 - 80x 2

(i)  $x = \sqrt{3} \cos 2t - \sin 2t = R \cos (2t + a)$ = Runztund - Rsinztsind Reord = 13 and Rsme = 1 50 R = 13+1 = 2 S6 2 = 2600 (26+E) (1) Find t when x=1 2405(2£ + E) =1 2七+ 晋 = 晋 t = II seconds (11) 2 = 2(0)(2t + 7) $\dot{x} = -4\sin\left(2t + \overline{t}\right)$ maximum value of  $\dot{x}$  is  $4 \text{ ms}^2$ , it occurs when  $\sin(2t + \overline{t}) = -1$ 2t+E = 34 2t = 3 = - = it reaches wereners velocity after 25 s.

 $(L) (1) = x^{3} - x - 2$ f ( ) = 1-1-2 = -2 f(2) = 8 - 2 - 2 = 4Plan changes seeps between x=1 and z So continuous 50 thouse (ii)  $f'(2) = 3x^2 - 1$ more and the second £"(1:5) = 3(1:5) -1 (c) 1)  $\Sigma v^2 = 2(2x - x^2) = 4x - 1x^2$ 2 = 1(4,4) = 4-4)C 11) Center souther 2=0, x=1 ~ 111) Maximum speed es chem 5c=0, 3c=1  $\alpha=1$ ,  $\nu^{\gamma}=\nu(2-1)=4$ so maximum speed to 2, and helf is 1. so  $2\sqrt{2x-x^2}=1$   $2x-x^2=\pm 1$ 45-8x +1 =0



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