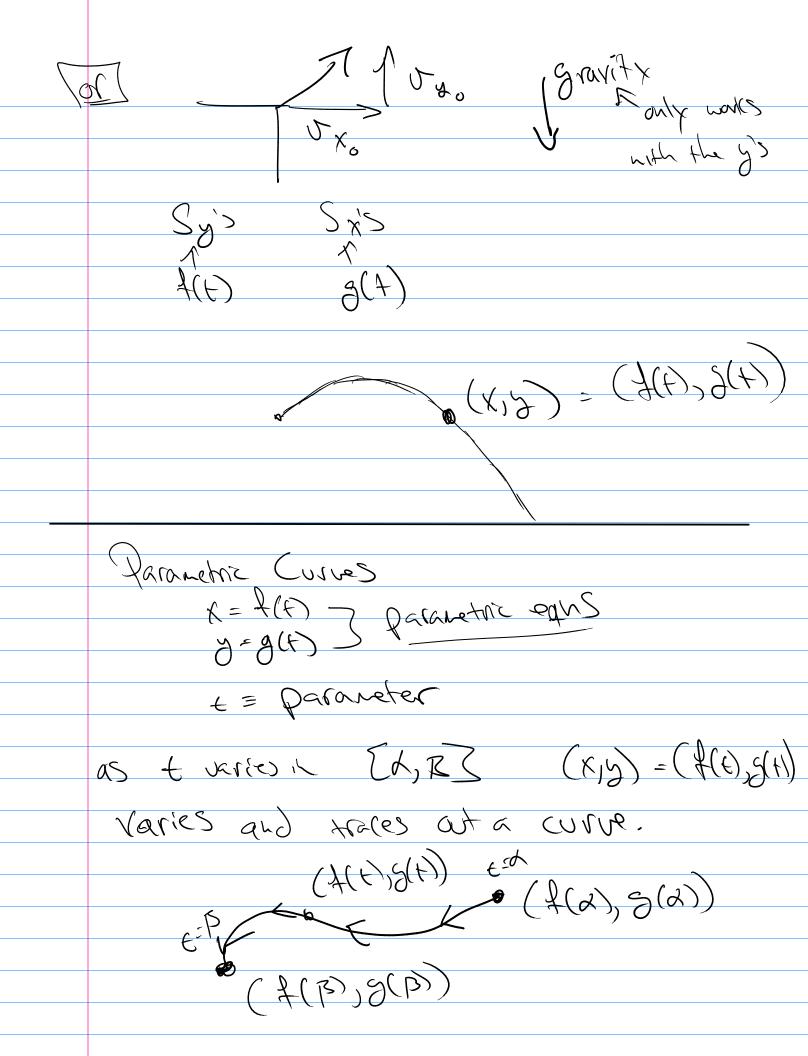
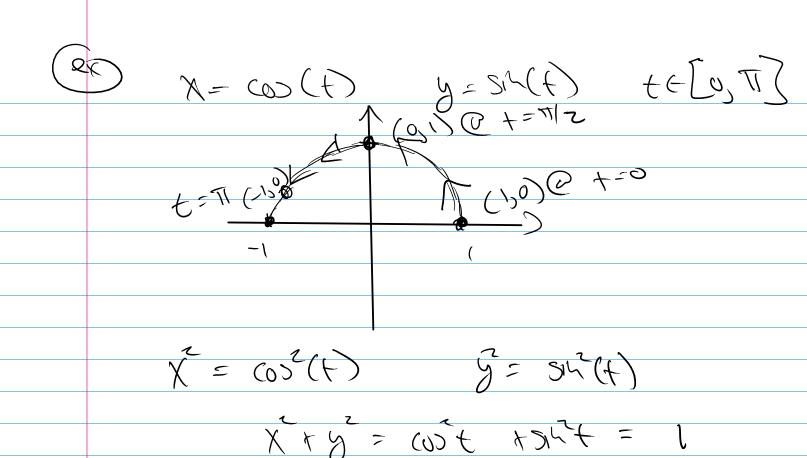
Math 293 Ch & Exam (12 probs (+) 2 echa credit) 8.1 Seg. 1 pnb Q.2 Series (prob convo du? St = 2 an = 90 +91 + - + at 5 = | lu Se | 8.3 2pn/os. (Series) 1) Integral Test 1 COMPANSON 8.4 contos (series) 1) Alt. Series. (2) Also. Conv. Tosts 8.5 /pn/s Ind pleased of cow. Using als. con. toss. $\frac{p}{\sum_{n=1}^{\infty}} \frac{(-7)^n}{n^{n}q} \chi^n$ = 2 Ju (x/ (n+1)/d - 2 h /x/ (1+y2) = 2/x/ / ~ 805. CONY J. Interx! 1x/ 1/2 = X 2 (-7) N=1 (1) 2 (-2) N=1 N/4 (2 Z (-1) con. alt. series

contined. 2.6 2 probs (power serves) 1) USK Paux Series for 1 Got - example - 3x 2) use pour serves for ity plus. Jeruchues or utegals. ex Stax = luftxt+c er de l'expert (1+x2)2 Donner power series & WC d 11x2 = 2x (14x2

 $\frac{1}{1+x} = \frac{2}{2} \left(-x^{2} \right)^{2} = \frac{2}{2}$ $= 1 - x^{2} + x^{4} - x^{6} + x^{8} - \cdots$ 2x = -2x + 4x - 6x + 8x - ... 8,7 Zpn65 O Forn Mickell for ICE) 2) form Taxlor for ACR) 8 es / pnh. Find Tu(k) for a Silven 1. (don't gaph) exten credit. (1) Seg convidu. @ serves conx (div.

19.15 pararetriz cures. paravetriz egus. 5(f) = position @ fine f. of S(E) = v(E) valocity At (v(+)) = 2 (S(+)) = a(+) a((2). exis Freefall (no gir resist.) a(t) = -(9.8 M/s)/80 a(t) = -(9.8 M/s)/80 0.50v(t) = -9.8 t + 1050 So = 100 v(+) = -9.8 E S(t) = -4,9 t + S)=100 S(F) = -4.9 E + 100

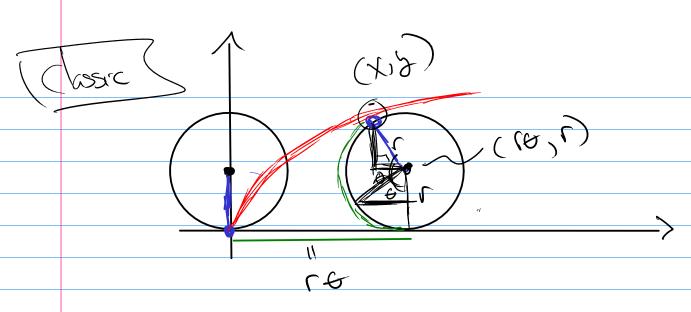




$$y(t) = -\frac{1}{2}y^{2} + y^{3} + y^{6}$$

$$y(t) = -\frac{1}{2}y^{2} + y^{6}$$

$$y(t) = -\frac{1}{2}y^{2}$$



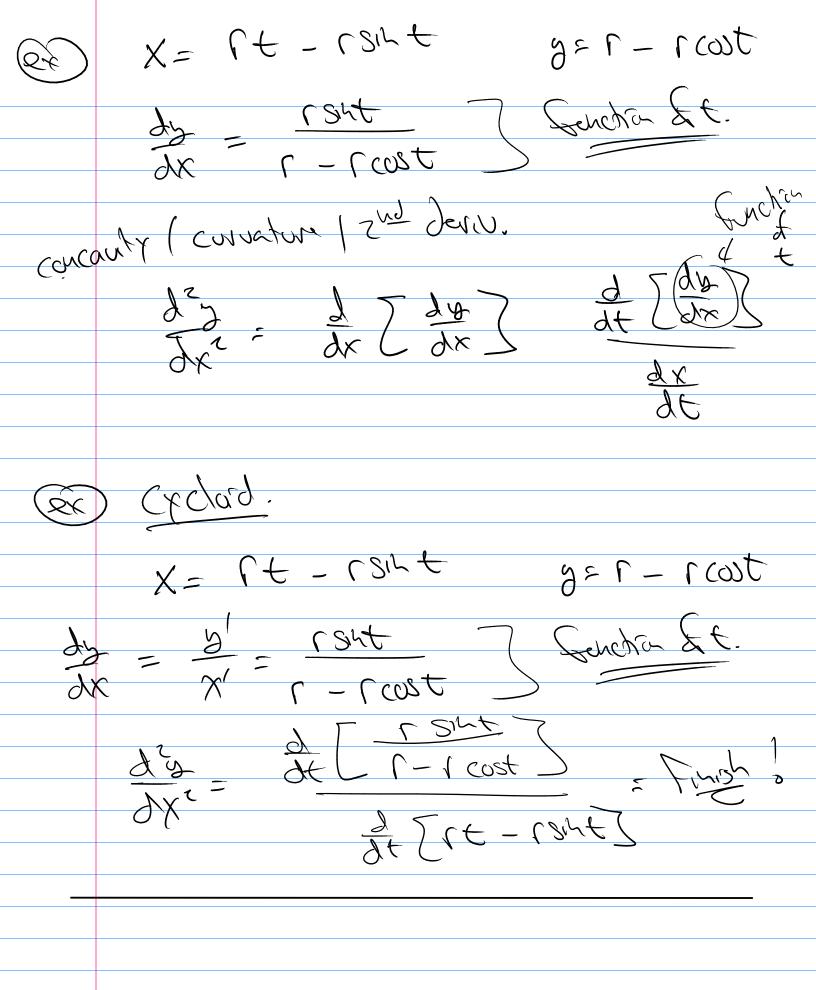
$$x = 16 - (3hb) = (6 - 5hb)$$

 $y = 1 - (65b) = ((-(05b))$

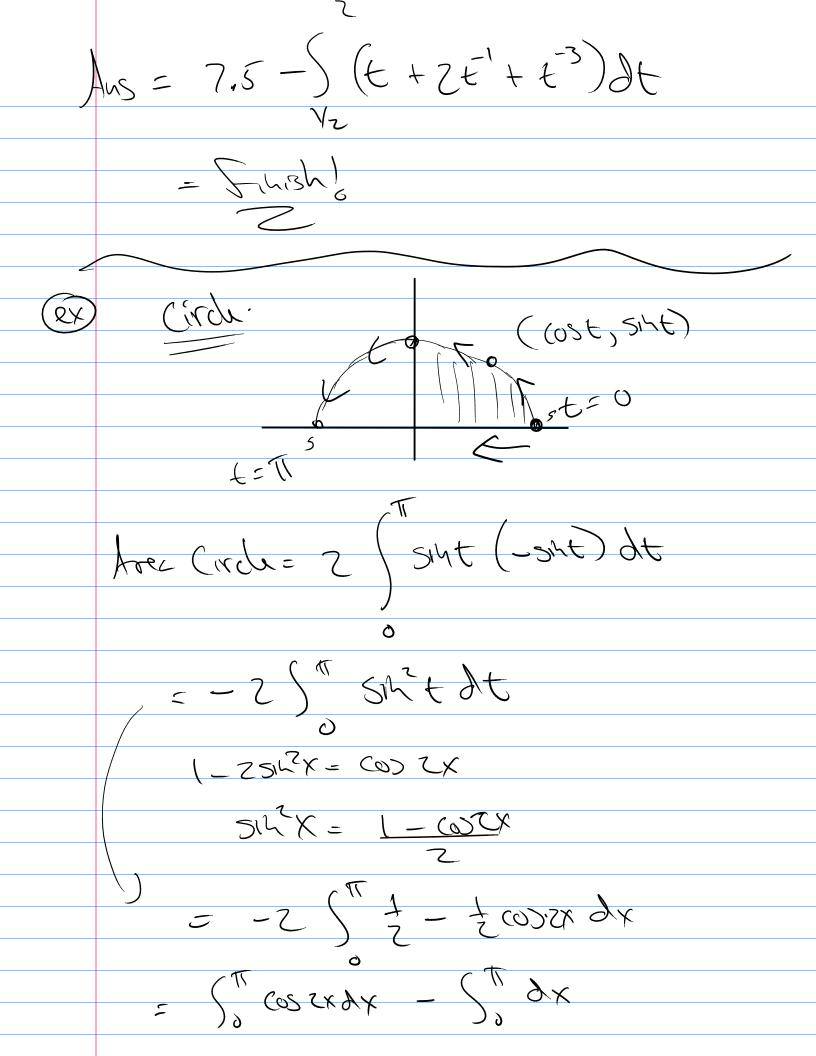
Calculus (+) Para retric Cures.

 $\frac{dy}{dx} = \frac{\frac{dx}{dt}}{\frac{dx}{dt}} = 0$

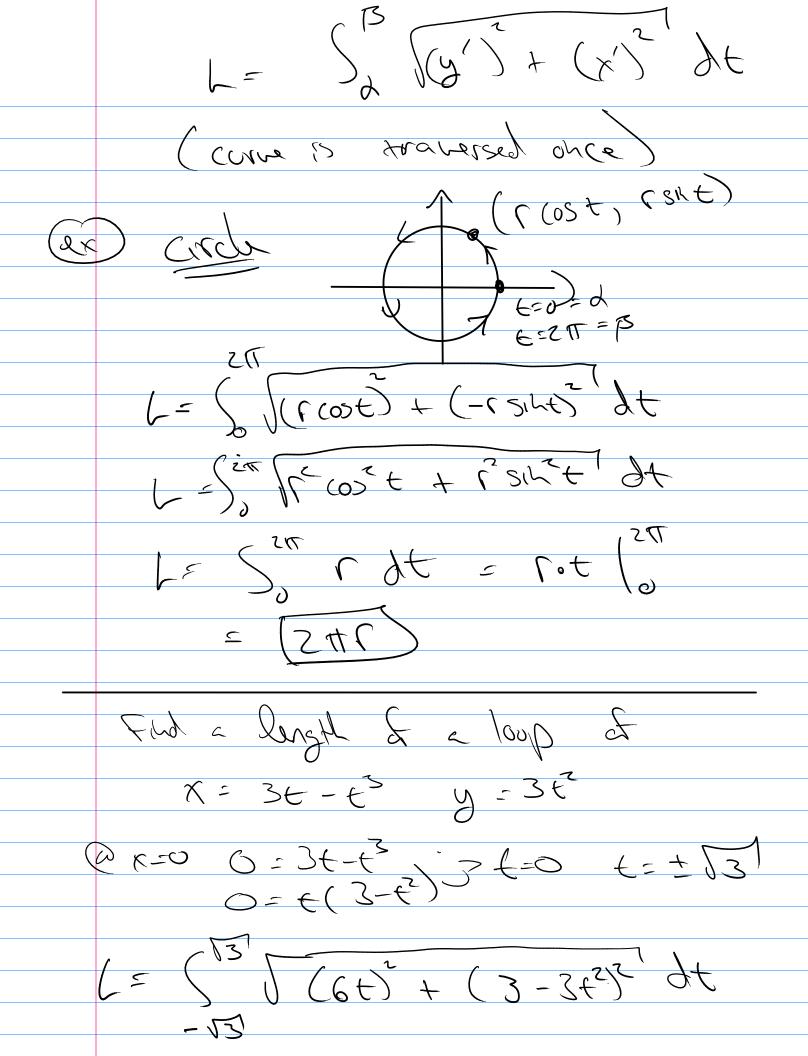
 $y = f(t) \qquad x = g(t) \qquad \frac{dx}{dx} = \frac{f(t)}{g(t)}$



F=9 bererest (ove is CMCR. 470 = t + Yt and y = 2.5 y = 7.5 2 g gx



= \frac{1}{2} SINZX \ \ \ \ \ \ \ - TT = T (vet Sighed area from area = TT or just integrate of goft to right Arclaugth L= Sb Jdx xdg L= Sa S(+(dy2) dx 800 $\frac{1}{\sqrt{3x}}$ = (dx) + (dx) dt



L= 5 [36t + 9 - 18 € + 9 €"] dr L= 515 [9+18t +9+9] L= (B) (3+3+2) A+ L= 2(13) 34+ 3+ d+ L= 2 (3+++3) 153' L= (6 53 + 2.3 12)