Q: Find an ear for the line tangent to the curre at the point defined by the given value of to Also find the value of day at this point 15) m=2 cost, y=3 sint, t= 1/2 1) n = 2 cost, y=2 sint, t= 1/4

2) m = Sin aTTE, Y= Cos aTTE, E= 1/6

3) n=4sint, y=2 cost, t= 1/4.

4) on = cost , y= v3 cost, t= aty

5) n=t, y=VE, t=1/4.

6) n= Scc2t-1, y= tant, t=-T/4

7) m= Sict, y= tant, t= 11/6

8) m=-V+1, y= V3E, E=3

9) n-262+3, y=64, E=-1

10) n=1/t, y=-2+lot, t=1

11) n=t-sint, y=1 -cost, t= Ty

12) n = cost, y = 1 + sint, E= 17/2

13) n= 1 t+1, y= t-1, t=2

14) かこしもは、 りこしっとし、 とこの

16) n- sin 211t, y= whith, t=2.

17) a= List, y= Gcost, t= 17/6

10) m= 2005t, 9= V2 Cost, t= 21/2

(1) n= 2 cost, 92 hsint, 1-1/3

20) n= +2 , , y= VE ,- t= 0)2 21) n=363+t, y= 62, t=1

22) m= SSint, y= 2 Cost, t= T/4

23) n=3th+t2, y=t3, t=2

24) n= 3t2, y=th, t=1

25) n= cost, y=2+sint, t= 07/3

26) n= 2 cost , y= 35int t= 1/L

27) m= + , y- th

28) n = 02, y = 2E,

of a. Find the corea;

29) enclosed by the y-axis and the curve 30) of enclosed by the ellipse n=t-t2, y= 1+e-t. m=a cost, y= bsint ostszir.

Q.33 Find the cona under y=n3 over [0,1] Using the following 31) n= + , y=+6 32) n=t3, y=t9.

Q: Find the length of the curves;

33) n= cost y= t+sint, 046511

34) n= t3, y2 3t2, 02ts v3

35) n= t/2, y- (2++1) 3/2, 0 < t = 4

36) n=(2+3)3/2 り= ヒナビン, Osts3.

37) n= 8 cust +8 t Sint のくととび y= 8 Sint +- 8 + cust

32) Q: Find the Surface Asia of the Surfaces quiraked by Seveling the Curve about the indicated ances, 38) n= cost, y= 2+ sint, 0 < t < 211, n-axis 39) n2(2/3) E3/2, Y= 2VE, OSESVI, Y-ans. 3ho) n= ++ v2, y=(+2/2) + V2+, -V2 < t < v2, y= ans a. pool the following points. This find all the polar coordinates &each point. (3, T/2) (43) (-3, T/4) (4, T/2), LS) (-12, T/4) 41)\$ (3. 17/4) 46) (-3, T/3) 47) (2, T/2) 48) (4, T), 49) (5, T/3) 54) (2,27/2) 51) (2, 1/6) 52).(1, 1/4) 53) (1,0) 50) (2, 11/6) 56) (4, 7/6) 57) (-1/2, 7/3) 58) (-4, 27/3) 55) (2, TI) 55) (/2, 1/3) (3) (3, 27/3) (1) (3, 7/2) (2) (5, 27/3) (3) (1, 7/3) 66) (\(\sigma_3, \tag{17/4} \) 67) (\(\sigma_3, \tag{17/4} \) 68) (2, 3\tag{17/2}). 65) (4,0) Q. Replace the polar equators with equivalent Cartesian exects.

The identify the graph. Graph the polar corve also 69) rcoso=2 , 70 co) r= -1-coso, 71), r= 1/2 + coso. 72) 7-2+6050 Also Find the ever of their Augions.

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