12= (5) (a) \$(0) = 0, g(0) = 50 1+e2 dt = archa 10 = 5/4 g'(x) = 2. (= 2. (= 2 = 2 = 1) = 2 = 1) = 2 = 1 3 x = d S' 1 = 2 (1+2) dt = S' 1 = 2 (1+2) = 50 -2x = 2 ane? = -2x 50 = 2 hee? 25 = X 1=62+.: x.t=:5 => => do = x => At= 4.ds = 5x -2 e 2 (1+ t) ds = -5x 2 = x ds (b) lim g(x)

1-100 g(x)

1-100 g(x)

1-100 g(x)

2 (n=e')

3(t) = 1-e' >> (fit) [= g(t), ge [1(R) da l'eman - int'bor => Print Leb'hou'nate: l'u so 1 - 22 (1+22) t = So lu e 26 + 22) 1 + 22 dt 0 1 1 = 0 (b,c) p(x) = f(0) + 5 8 6 , 25 gus = 300) + 5° 8 6, 4 700 0 => 50 8' (x) da - 7 = 14 5-00 it dt = 2. 500 it dt = 2. (So it dt) = = 2 / in f(x) = 2. 14 = Ju

```
a cos 0 cos 4 , - a + 5-0 cos 4 , - a + cos 8 1-4 1
                                              (3 = | 3x 3x 3x 3x | dessources , -atsinoning , -atsinonin
                                                     = からしーからののののはの一からののからなり
                                                                                                                                                                                                         . - 3 a 6 c
                                                                                                                                                                                                         · rabe
                                                           - cos 0 [ cos 0 cos 4 + cos 0 124 ]
                                                      = - mid (ind cos 0) - cos 0 (cos 20)
                                                                                                                                                                                                         · 17 46 c
                                                      = - cos O . rabc
                                        (9) vol (E) = \Sodr Sodr Sody Sod 1. (- wo -2 abc) /
                                                                          = | Sodr Sody = abc - n=0 | =/2 1
                                                                                                     2- - (1+1)
                                                                          = 1 - 4 = a60 = 3 - 10 1
                                                                            = 1 - 43 = abc 1 = 4/3 = abc
                                         (6) In 1 dr = & Sodr 5, 14 Soin 10 1. + cost?
                                                                                       \frac{1}{8} 2 - \frac{1}{3}R^3 = \frac{1}{6} = R^3
                                                        So xidx = Sodr Sodr Sodr So do [ 100 wso 12
at 1.000 =
                                                                   = Solr 24 13 2000
30.10
                                                                      = 1 R4. 1 = R .
                                                    Wy. Symmetie gilt det fir alle xi!
                                                        S = 16 R (1,1,1)T
```

47 dy = 3. 50 . do 1. 1. 3. (1-0) 50 10 (1-0) = 1.1 - 3.0 + 30 - 103 Jo = 91/2 - 30 + 30 2 - 0 10 = $\frac{3}{4} \cdot \left[\frac{3}{3}\theta^{3/2} - \frac{6}{5}\theta^{5/2} + \frac{6}{3}\theta^{5/2} - \frac{3}{3}\theta^{5/2}\right]_{0}^{1} = \frac{8}{105}$ (6) val(K) = 1 49 5 1 r dr 131= (-1549 rwy) = r w34+124 = 1 = 50 49 (1-6054) 197 HK: 11 x - (2 5 x x) 1/2 & 1 M= {11(x, y, z) / 1/2 < 1 } 1 33+35+35 81 (x) = (r cos 0) re (0,1) 0 + [0,24), 2 + [0,4] (Pylinar Coerd.) 131= Vol (My) = 5 42 5 24 5 dr - 1 = h 2 = = -. h (17 5. v. Canalieria: Val(Hh) ident. - 14 Val. ines Zyl. d. Rul. r=1, h=h.)