2.41
$$S = \frac{1}{2} \cdot \frac{1}{$$

```
3.13 Uckin) = E Co contala sincutty la) . Cu = 250 voly) sin Cutt = la) dy
     1000)= {-1001 0<5 < 1012 (m = 2 12 ) Sincumplatury - Sale sincumplatury]
       = 200 ( - COSCUTTY O) | ALZ ]
       = 21/0 (1+(-1) - 5 m>(m))
        N=1, 0 N=2, 4 N23, 0 N24,0 N=5,0 N=6,4
       "Cn = { 800/MTT, N=2,6...
        V(Kin) = The E -NIIX / Sincutingla)
  3.14 V(x, y) = 400 E to c-MEX/o sin(Maylo) == - Eo 3n
         OCy) = - E. IX [ We E to e - NTX / Sin Curyla) ] k20
              = - 20 TE & (- " ) c - wix / sin ( wing / a) / x=0
              = 4 Earlo & Sinkutingle)
   3.15 a) 320 + 22 = 6 V(b, y) = Uoly)
           UCKID) = (Ackx + Bc-Kx) (C): Why + Dasky)
           · U(x17) = AC (cuttera - e-utixla) sin (n # 10) = (2AC) sinh (n # x/a) sin (utiyla)
           V(K, ) = E ( Lu Sinh ( LUTEX) Sin ( LUTEX / a)
            Emsinkatishisinkatiyla)= voly) Chrinhkutbla)= 2 Sa Voly)sialutylady
            (n = winh (nit bla) ) o Vely) sin (willy la) dy
          b) (n = asimun (mit bla) Ve So Sin (nitrola) day
                = ZV. x & 2 min n cuen
                V(x,y) = T N=13.5 Sink(ntix/a) Sin(ntix/a)
NSINK(ntib/a)
```