8.2.28 [exsindx = [ ] uv'dx = uv - svadx) = [ u = Sin 2 => u' = cosx = [ ve = x = v = Su'do = se'dx = ex]= = Sin x. ex - se' cosxdx = [ v = ex = x => 1 + (cosx) = - Sin 2 = Sinxie - (cos. ex - lex. (-sin x) dx) = sin x. ex - cos x . ex-- le sinxdx + C le" sinx dex=sinx.ex-cosx.ex-lesinxdan + lexsinadn + lexsinadn = excosatex sinat 2 cm [ u = e => w = e = e ] [ v = sinn => th = sinx dn = -cos = ex. (-00500) - (-(0501) · ex dx = 4 = e2 4/2(e) = ex 2=cosx=>2= [v'dx= Scosndr=sinset =-excosx+ (ex-sinz-Ssinx exdx)

D.e. [exsinx:dx = excosx + exsinx ex. Sinxdx + C [exsinxdx+ ]ex. sinxdx = - excosx+ex · Sinx+C 8.2.29  $= \int \sin(\ln x) dx = \int \cos(\ln x) dx$ = Sin(ln 2) 21 - Sx. cos(lnx, +dx= =  $x \cdot \sin(\ln x) - \int \cos(\ln x) dx = 20 \cdot \sin(x)$ -  $\int_{-\infty}^{\infty} \int -\cos(\ln x) dx = \int_{-\infty}^{\infty} \int \cos(\ln x) dx = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int \cos(\ln x) dx = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty}$ (fot-sinclum) - fodn = x - Sin ln x - x - costor - Sin Rundant ssin (ln n) dr = a(sin (ln 11) costensy - Ssin (lux) du + C. . =

```
2en Sin(lun) du = [t=lux=>dt=dllun]=
       (lu'x) dx = fedre 7:(
     [t=en >c=> >c=et=>d==d(et)=et'dt=

= [sint.etdt=[runeen]===enx.]
                                             (sin (lnx) - cos(lnx))
                     arcsin seda = (1 - avesin ada = [4= avesina
    = \frac{\alpha \operatorname{avcsin} x}{\sqrt{1-t}} = \frac{1}{2} \frac{1}{2}
    + 2 - 2 + C = 2 avesin x + (1 - x2) 2+ C=
          2 x6 blvesin 20 + 11-22 + C
8, 2, 32
                   Senfunda = [t. en n ge=et]
         = ln x ln lnx - lnx+C
```

\[ \frac{4 dx}{2 + 3} = \begin{bman} \frac{1}{2} \text{mun} \\ \frac{2}{20 - \alpha} \end{bman} = 4 \int \frac{d(24)}{20 + 3} \\ \frac{2}{20 - \alpha} \end{bman} = 4 \int \frac{d(24)}{20 + 3} \\ \frac{2}{20 + 3} = \frac{1}{20 - \alpha} \\ \frac{2}{20 - \alpha} \end{bman} = 4 \int \frac{d(24)}{20 + 3} \\ \frac{2}{20 + 3} = \frac{1}{20 - \alpha} \\ \frac{2}{20 - \alpha} \\ \frac{1}{20 - \alpha} \\ \frac{2}{20 - \alpha} \\ \frac{1}{20 - \alpha} = 4 en 198+31+ 8.3.3 \ \ \frac{dx}{6c-05} = \bigg[ \frac{2 mun}{2c-05} \bigg] = \bigg[ \frac{d(2c-1)}{(2c-1)5} = \bigg[ \frac{A}{(2c-05)} \bigg[ \frac{A}{(2c-05)  $= (2 - \frac{9}{1} - \frac{5}{1} + C = -\frac{1}{4}(2 - 1)^{-4} + C$ = - 1 46(-1)4+C 8.3.4  $\int (11 dx) = \left[\frac{2 mun}{4}\right] = 11 \int (2+4)^3$   $\frac{1}{2} (2+4)^3 = \frac{1}{2} \left[\frac{4}{(2+4)^3}\right] = 11 \int (2+4)^3$