```
(x+1)\sqrt{x+3} dx
  M = x+3 → 30=3x
  ルン×+2+1
 S(U-2). (U du
   U-2=x+1
 S ( N-2) · U1/2 av
    S U3/2 2U 1/2 4U
      \int \frac{\int_{3/2+1}^{3/2+1} dv}{3/2+1} dv = 2 \int_{0}^{3/2+1} dv
       \frac{2}{5} \cdot b^{5/2} - 2 \cdot \frac{2}{3} \cdot b^{3/2} + C
    \frac{2}{3} \cdot \left(\times + 3\right)^{\frac{3}{2}} - \frac{4}{3} \cdot \left(\times + 3\right)^{\frac{3}{2}} + C
D=Sin(x) DV= Ex DX
         du=COS(x) dx V=Ex
       UV-SVaV
       Sin(x). Ex- SEx GS(x) dx
                         U = Cosca) av= Ex ax
bu= - Sep(x) v= Ex
       SIN(x).Ex -[Cos(x).Ex/Ex rsente) dx]
I = SINCX)·EX - [GS(x)·EX+SEX(Wax)
I = Sin(x) \cdot E^{x} = c_{S}(x) \cdot E^{x} - I/
2I = Sin(x) \cdot E^{x} - c_{S}(x) \cdot E^{x}
  I = SIN(x). Ex - G3(x). Ex + C
\int e^{x} \sqrt{1 - e^{2x}} dx
 (₹= Ex)2 → 0₹= E x 8x
                  V1-22 32
 X= SEN(a) == SEN(a) da
   \[ \left[ \frac{1-\SEn^2(\alpha)}{2} \cdot \Cos(\alpha) d\alpha
          (052(d)+ Sev2(d)= 1
             (052(d)=1-5822(d)
   \ \(\langle (\alpha)^{\frac{1}{2}} \text{ (65(d) } d\text{ d}
 ( (cs(a) . cs(a) da
   ( GS(a). GS(a) da
   \ \( \cos^2(\alpha) \) det \( \cos^2(\alpha) = \frac{1 + \cos(r\alpha)}{2} \)
   = 1 x + 1 · 1 · SEU (2d)
SEN(a) = 1. SEN(a)
= = = x+1 Sev(20) +C
                          EX = SENCO) COT OP
   == SEN(d)
   Ex = SENCO) / ARC SEN
    Q = ALCSEN(FX)
SE_{N}(2\omega) = 2.SE_{N}(\omega), C_{SC}(\omega)

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SE_{N}(2\omega) = 2.SE_{N}(\omega), C_{N}(2\omega)

T = \frac{1}{2} ARCSE_{N}(\omega) + \frac{1}{4} \cdot 2 \cdot E^{X}, (1 - E^{2X} + C)
```