```
Roleiro 3A -1
(1) a) f(t)=v(t)
                                       \mathcal{L}_{\{\{(\epsilon)\}} = \mathcal{L}_{\{(\epsilon)\}} = \mathcal{L
                                                                                                                                                                                                                                                                                                                                                                  P(a) =1
b) b(t)=tu(t)
                    2{ ((+) = 5 = te-nt | = -te-nt | = -(-1) . 5 = nt . tt
                                                                  V=t => du=dt dv=e-ntdf=>v=-e-nt
                                                F(2) = 1
       c)
       B(E)= sen cut. v(t)
        Sificilization noment ent et a montre ent los - (-u) los consulent est et
               U=mat. du= ucont dt
                                                                                                                                                                                                                                                        dissert dusembent de
                    orse-496. 15-6-4
          J's shout ent dt= [- cosut. c-z] = - (-u) (-1) Jo muit ent t ] u
          (1+m3 % 20 m m 6 27 ft = (0-(-1)) 2  F(v) = m
  (Da) e-at senant. u(t)
               2 { {(t)} = 2 {e^{-at}, cosunt u(t)} = 2 ½ non u(t+a) F(n)= in (nta)+un
 b) f(+)= c-al, cosut v(+)
                 S = \{\{(e)\}\} = \{\{e^{-ot}, cosw \in c(t)\}\} = \{\{cosw (e+a)\}\} + \{(a)^{2} + a^{2}\}
  c) f(t)=eat. cosut ~(t)
                    36 8(4)3 = 2 fe-of count m(6)3 = 2 f count (f-o)3 + (v) = v + a
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$$\frac{4f_{3}}{3x} + \frac{4f_{3}}{1195x} + \frac{1}{3}\frac{9f_{x}}{9f_{x}} + \frac{9f_{x}}{3} + \frac{9f_{x}}{3}$$

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$$\frac{4f_{3}}{3} + \frac{1}{1195x} + \frac{1}{3}\frac{9f_{x}}{9f_{x}} + \frac{9f_{x}}{3}$$

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$$\begin{aligned} & \text{f(e): } & \text{f(e): } & \text{fond } & \text{f$$

$$\begin{array}{l} (a) \ F(a) = \frac{2}{o(a+2)} & \frac$$

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