1

 $V(t) = 4.3 \text{ ser(t)}, 3 \text{ cont}, 6 \text{ t.} > \text{ Para } 0 \leq t \leq 1$ $J(t) = 3 \text{ cont} \qquad y(t) = 3 \text{ cont} \qquad h(t) = 6 \text{ t.}$ $J'(t) = 3 \text{ cont} \qquad y(t) = -3 \text{ sent} \qquad h'(t) = 6$ $L = \int_0^1 \int (3 \text{ cont})^2 + (-3 \text{ sent}) + (6)^2 dt$ $L = \int_0^1 \int 9 \text{ cost}^2 + 9 \text{ sent} + 36 dt$ $L = \int_0^1 \sqrt{9 + 36}$ $L = \int_0^1 \sqrt{9 + 36} dt$ $L = \int_0^1 \sqrt{9 + 36} dt$

16.71