Elen Nen-Bold Answers 34a) x(t)=e-t cosxt+35in 2t 85.1 (b) transient state: 10) N(t) = - 1 Cosst + 4 Ain 51 a)x(+)= = 5 sin(5t-0.927) Steady - state b) x(+)=== cos (st-2.498) 3 Am 2t 28) a) y(t) \$= 0 foromyt 42) x(t) = 2 cos 3t + 18/sm 3+ is x(0) = 1 m - 5 t cos 3t 87.1 6) x'(+) =0 at t & 0.384 A (12)  $2 = \frac{e^{-5}}{12}$   $= \frac{e^{-5}}{12}$ Extremo displacement a)  $x(t) = e^{-2t} (\pm \cos 4t + \pm \sin 4t)$   $= \frac{3}{4} \pm \frac{3}$ b) x= == = sin(4++ =) c) t= 16 + 2 m,