MECH 6325 HW 1  $\alpha = \mathbb{R}$   $Y = \sqrt{(0,0^2)}$ X = a + Y $E[X(t)] = \int_{-\infty}^{\infty} X + (x,t) dX$   $\overline{X(t)} = \int_{-\infty}^{\infty} X (at + t) dX = (at + t) \int_{-\infty}^{\infty} X dX$   $\overline{X(t)} = C$   $\overline{X(t)} = C$ b) A[X(+)] = lim = 1 (X(+) d+ T-xxx 27) X(+) d+ = lim = (a++1)d+  $= \frac{1}{1 - 20} \frac{1}{27} \left[ \frac{at^3}{a} + Y + \frac{1}{17} \right] = \frac{27}{27} + YT$   $= \frac{1}{100} \frac{1}{27} \frac{277}{27} + \frac{1}{17} = \frac{27}{27} + \frac{1}{17} = \frac{1}{27} = \frac{1}{27} + \frac{1}{17} = \frac{1}{27} = \frac{1}{27} = \frac{1}{27} = \frac{1}{27}$ () Not stationally for Ergotic 他们关证了